CONSTRUCTION NEWS

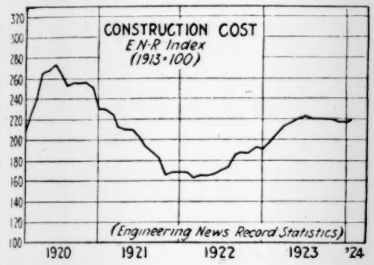
Engineering News-Record, January 31, 1924

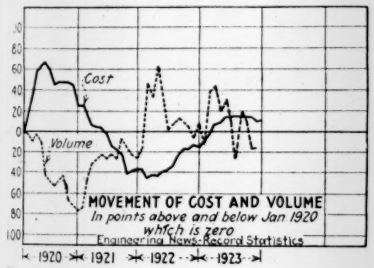
The Construction Barometer

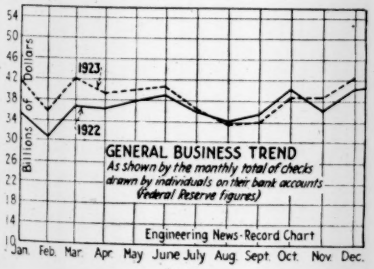
Gain In Volume Of Construction Despite Higher Cost—Cement And Pine Lumber Firmer —Increased Iron And Steel Demand

DESPITE the recent sharp upward turn in cost, there has been a corresponding increase in the volume of construction, particularly public work, during the last month. Cement and pine timbers have both shown higher price tendencies in this week's market, while iron and steel are gradually growing firmer with the increase in demand. Mill stocks of materials are adequate to meet any demand which may arise next month, following which, greatly increased production schedules will be necessary to cope with the expected rush of orders in the spring.

The actual physical volume of contracts let Dec. 27 to Jan. 24 was nearly 2 per cent heavier than for the whole month of December, 1923. In this same period costs rose 0.8 per cent.






Billions of Dollars
1923
1922
GENERAL BUSINESS TREND
As shown by the monthly total of checks drawn by individuals on their bank accounts (Federal Reserve figures)
Engineering News-Record Chart
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.

Engineering News-Record Statistics

VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES

Week Ended	Public Work	Private Work	Total Contracts
Jan. 10	13,625,000	23,761,000	37,386,000
Jan. 17	9,074,000	28,657,000	37,731,000
Jan. 24	12,455,000	13,457,000	25,912,000
3 weeks	$35,154,000	$65,875,000	$101,029,000

LARGE BUILDING CONTRACTS—NUMBER AND VALUE

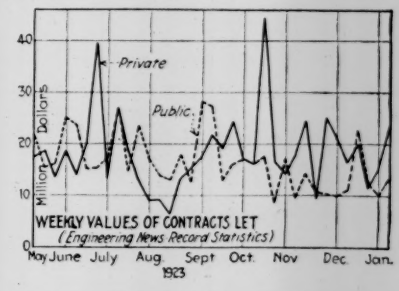
Week Ended	Public No.	Public Work	Private No.	Private Work
Jan. 10	12	3,219,000	42	18,138,000
Jan. 17	9	2,551,000	38	20,232,000
Jan. 24	12	5,710,000	26	6,476,000
3 weeks	33	$11,480,000	106	$44,846,000

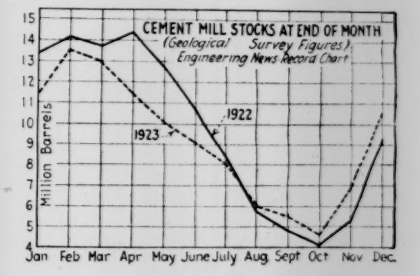
NUMBER OF LARGE JOBS NOW OUT FOR BIDS

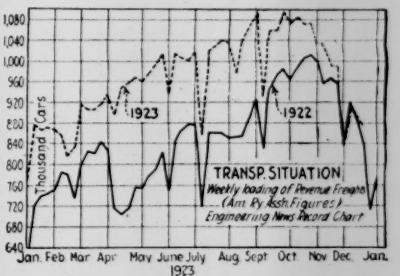
Week Ended	Private	Public All	Public Streets and Roads	Public Waterworks and Sewers	Public All Buildings
Jan. 10	28	149	33	32	30
Jan. 17	40	155	37	30	49
Jan. 24	39	205	55	31	66

PINE AND CEMENT FIRMER—STEEL DEMAND INCREASING—DROP IN FIR CUTTING ORDERS IN WEST

	Quoted on Jan. 31, at	Price Was	On
Structurals, Pittsburgh, 100 lb	$2.50	@2.60	June 21
Cement, Chi., net bbl	2.20	2.10	Jan. 24
Pine, N. Y., M. ft.	61.00	60.00	Jan. 24
Fir, San Fran., M. ft	36.00	38.00	Jan. 24
Common labor, hr.	.54	.53	June 28




CEMENT MILL STOCKS AT END OF MONTH
(Geological Survey Figures)
Engineering News Record Chart
1922
1923
Million Barrels
Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec.



PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Feb. 4	Denver, Colo.	Jan. 17
Feb. 5	Ft. Wayne, Ind.	Jan. 24
Feb. 5	Gibsland, La.	Jan. 31
Feb. 5	Grosse Pointe (Detroit P. O.), Mich.	Jan. 31
Feb. 5	Neenah, Wis.	Jan. 31
Feb. 5	New York, N. Y.	Jan. 31
Feb. 7	Dannebrog, Neb.	Jan. 31
Feb. 8	Goderich, Mich.	Jan. 24
Feb. 11	Fairmont, Okla.	Jan. 17
Feb. 11	McKeesport, Pa.	Jan. 17
Feb. 11	Armory (Springfield P. O.), Mass. Adv. Jan. 31.	Jan. 31
Feb. 12	Greensboro, N. C.	Jan. 31
Feb. 18	Bedford, Ind.	Jan. 31
Feb. 19	Bloomington, Ind. Adv. Jan. 24 and 31.	Jan. 24
Feb. 19	Corsicana, Tex. Adv. Jan. 24 and 31.	Jan. 24
Feb. 20	San Francisco, Calif. Adv. Jan. 24 and 31.	Jan. 24
Feb. 20	Goldsboro, N. C.	Jan. 31
Feb. 20	Phillip, Wis.	Jan. 31
Feb. 20	Hammond, Ind. Adv. Jan. 31.	Jan. 31
Feb. 22	Smithfield, N. C.	Jan. 31
Mar. 4	Gloversville, N. Y. Adv. Jan. 31.	Jan. 31

SEWERS

Bids Close		See Eng. News-Record
Feb. 1	Trenton, N. J.	Jan. 24
Feb. 5	Baton Rouge, La.	Jan. 3
Feb. 5	Gallatin, Tenn	Jan. 17
Feb. 5	St. Louis, Mo.	Jan. 10
Feb. 6	Oelwein, Ia.	Jan. 17
Feb. 11	Pleasantville, N. Y. Adv. Jan. 10 to 31.	Jan. 17
Feb. 11	Carthage, Mo.	Jan. 31
Feb. 12	Big Springs, Tex.	Jan. 24
Feb. 12	University (St. Louis P. O.), Mo.	Jan. 24
Feb. 12	Elizabethtown, Ky.	Jan. 17
Feb. 12	Greensboro, N. C.	Jan. 31
Feb. 19	Lyndonville, N. Y. Adv. Jan. 31.	Jan. 31

BRIDGES

Bids Close		See Eng. News-Record
Feb. 5	Yankton, S. D.	Jan. 17
Feb. 5	Duluth, Minn.	Jan. 24
Feb. 5	Wyoming	Jan. 31
Feb. 6	Abbeville, S. C.	Jan. 31
Feb. 8	Tennessee	Jan. 24
Feb. 11	Pembroke, Ont.	Jan. 24
Feb. 11	Houston, Tex.	Jan. 31
Feb. 13	Phila., Pa. Adv. Jan. 17 to 31.	Jan. 17
Feb. 14	Mendota, Minn. Adv. Jan. 31.	Jan. 24
Feb. 20	New York Adv. Jan. 17 to 31.	Jan. 17

Bids Close		See Eng. News-Record
Mar. 3	St. Paul, Minn. Adv. Jan. 24 and 31.	Jan. 24
Mar. 10	St. Anne de Bellevue, Que.	Jan. 31
May 1	Tientsen, North China	Oct. 11

DAMS

Feb. 7	Kingston, N. C.	Dec. 27
Feb. 14	Phila., Pa.	Jan. 31

RAILWAYS

Mar. 18	New Zealand	Sept. 20
Apr. 1	Indiana	Jan. 24

EXCAVATION, DRAINAGE IRRIGATION

Feb. 4	Minneapolis, Minn.	Jan. 10
Feb. 9	La Feria, Tex.	Jan. 31
Feb. 15	Morehead City, N. C. Adv. Jan. 17 to 31.	Jan. 24
Feb. 15	North Carolina	Jan. 31
Feb. 18	Tampa, Fla. Adv. Jan. 24 and 31.	Jan. 24

STREETS AND ROADS

Feb. 2	Buffalo, N. Y.	Jan. 31
Feb. 4	Newport, Ind.	Jan. 17
Feb. 4	Shoals, Ind.	Jan. 17
Feb. 5	Leland, Miss.	Jan. 17
Feb. 5	New York Adv. Jan. 17 to 31.	Jan. 17
Feb. 5	Kosciusko, Ind.	Jan. 17
Feb. 5	Kendallville, Ind.	Jan. 24
Feb. 5	Toledo, O.	Jan. 24
Feb. 5	Wabash, Ind.	Jan. 24
Feb. 5	Indiana	Jan. 24
Feb. 5	Wyoming	Jan. 31
Feb. 6	Oklahoma	Jan. 31
Feb. 6	Salina, Kan.	Jan. 24
Feb. 6	Nevada, Ia.	Jan. 31
Feb. 6	Brooklyn, N. Y.	Jan. 31
Feb. 7	Charleston, S. C.	Jan. 31
Feb. 7	Colorado	Jan. 31
Feb. 8	Ellensburg, Wash.	Jan. 31
Feb. 8	Boonville, Ind.	Jan. 24
Feb. 8	Nashville, Tenn.	Jan. 17
Feb. 8	Tennessee	Jan. 24
Feb. 8	Newark, N. J.	Jan. 31
Feb. 9	Colorado	Jan. 31
Feb. 11	Scottsburg, Ind.	Jan. 17
Feb. 11	Dallas, Tex.	Jan. 31
Feb. 11	Houston, Tex.	Jan. 31
Feb. 11	Los Angeles, Calif.	Jan. 31
Feb. 11	Bakersfield, Calif.	Jan. 31
Feb. 12	Salem, N. J. Adv. Jan. 31.	Jan. 31
Feb. 14	Jasper, Ind.	Jan. 17
Feb. 15	Illinois	Jan. 31
Feb. 15	Anniston, Ala.	Jan. 24
Feb. 15	Alpine, Tex.	Jan. 31
Feb. 15	Ohio	Jan. 31
Feb. 15	Oklahoma City, Okla.	Jan. 31
Feb. 18	New Philadelphia, O.	Jan. 24
Feb. 19	St. Louis, Mo.	Jan. 24
Feb. 26	Plymouth, Wis.	Jan. 31
Feb. 28	Kenosha, Wis.	Jan. 17
Mar. 1	Tuscaloosa, Ala.	Jan. 31
Mar. 11	Washington	Jan. 10

INDUSTRIAL WORK

Feb. 5	Darby, Pa.	Jan. 31
Feb. 7	Knoxville, Tenn.	Jan. 31
Feb. 11	Green Bay, Wis.	Jan. 31
May 21	Wellington, New Zealand	Jan. 10

BUILDINGS

Feb. 2	Bristol, Conn.	Jan. 31
Feb. 4	Columbus, O.	Dec. 27
Feb. 4	Wash., D. C.	Jan. 17
Feb. 4	St. Johns, Mich.	Jan. 24
Feb. 4	Shreveport, La.	Jan. 31
Feb. 4	Phila., Pa.	Jan. 31
Feb. 4	Kenosha, Wis.	Jan. 31
Feb. 5	Baltimore, Md.	Jan. 24
Feb. 5	Coffeyville, Kan.	Jan. 24
Feb. 5	Phila., Pa.	Jan. 31
Feb. 6	Huntington, W. Va.	Jan. 17
Feb. 6	Marcy, N. Y.	Jan. 24
Feb. 6	Amsterdam, N. Y.	Jan. 24
Feb. 6	Boston, Mass.	Jan. 31
Feb. 6	Baltimore, Md.	Jan. 31
Feb. 7	Bellaire (Jamaica P. O.), N. Y.	Jan. 24
Feb. 7	Brooklyn, N. Y.	Jan. 24
Feb. 7	Lancaster, Pa.	Jan. 31
Feb. 7	Florence, N. J.	Jan. 31
Feb. 7	Phila., Pa.	Jan. 31
Feb. 7	Detroit, Mich.	Jan. 31
Feb. 8	Celina, O.	Jan. 31
Feb. 8	Phila., Pa.	Jan. 17
Feb. 8	Northfield, Minn.	Jan. 24
Feb. 8	Cedargrove, N. J.	Jan. 24
Feb. 8	Ft. Wayne, Ind.	Jan. 31
Feb. 10	Trenton, N. J.	Jan. 10
Feb. 11	Claymont, Ill.	Jan. 24
Feb. 11	Urbana, Ill.	Jan. 31
Feb. 11	Hamburg, N. Y.	Jan. 31
Feb. 11	Portsmouth, O.	Jan. 31
Feb. 12	Falls City, Neb.	Jan. 31
Feb. 13	Industry, N. Y.	Jan. 17
Feb. 14	Phoenixville, Pa.	Jan. 31
Feb. 14	Youngstown, O.	Jan. 31
Feb. 15	Wausau, Wis.	Jan. 31
Feb. 15	Waukegan, Ill.	Jan. 24
Feb. 15	Bellaire, O.	Jan. 31
Feb. 15	Tiffin, O.	Jan. 31
Feb. 15	Ypsilanti, Mich.	Jan. 31
Feb. 15	Minneapolis, Minn.	Jan. 31
Feb. 16	Baltimore, Md.	Jan. 31
Feb. 18	Wheaton, Ill.	Jan. 31
Feb. 19	Appleton, Wis.	Jan. 31
Feb. 19	Milwaukee, Wis.	Jan. 31
Feb. 20	Irvington (branch of Newark), N. J.	Jan. 24
Feb. 20	Huntington, W. Va. Adv. Jan. 24 and 31.	Jan. 24
Feb. 25	Rome, N. Y. Adv. Jan. 31.	Jan. 31
Feb. 28	Phila., Pa.	Jan. 31
Mar. 1	Akron, O.	Jan. 24
Mar. 1	Chattanooga, Tenn.	Jan. 31
Mar. 3	Rhinelander, Wis.	Jan. 31

FEDERAL GOVERNMENT WORK

Feb. 4	Lumber — Leavenworth, Ind.	Jan. 31
Feb. 5	Steel Piling — Louisville, Ky.	Jan. 10
Feb. 5	Steel Piles—Wash., D. C.	Jan. 24
Feb. 5	Cranes—Florence, Ala. Adv. Jan. 24 and 31.	Jan. 24
Feb. 6	Storehouse—Pearl Harbor, H. T.	Dec. 20
Feb. 6	Jetty—Jacksonville, Fla. Adv. Jan. 24 and 31.	Jan. 24
Feb. 6	Piles—Wash., D. C.	Jan. 31
Feb. 7	Steel Roof Trusses—Florence, Ala. Adv. Jan. 17 to 31.	Jan. 17
Feb. 8	Steel and Bolts—Owensboro, Ky.	Jan. 10
Feb. 11	Sub-Post Office—Memphis, Tenn.	Jan. 10
Feb. 11	Laundry — Northampton, Mass. Adv. Jan. 17 to 31.	Jan. 17
Feb. 11	Steel Castings, etc.—Louisville, Ky. Adv. Jan. 17 to 31.	Jan. 17
Feb. 11	Artesian Wells—Vicksburg, Miss.	Jan. 31
Feb. 12	Lumber—Mare Island, Calif.	Jan. 31
Feb. 12	Gasoline Hoist, etc.—Ketchikan, Alaska	Jan. 10
Feb. 12	Roof—Baltimore, Md.	Jan. 24
Feb. 13	Laundry Equipment—New York, N. Y. Adv. Jan. 31.	Jan. 31
Feb. 13	Mooring Mast—Ft. Worth, Tex.	Jan. 31
Feb. 14	Stone—Portland, Ore. Adv. Jan. 17 to 31.	Jan. 17
Feb. 14	Breakwater — Gulfport, Miss. Adv. Jan. 24 and 31.	Jan. 24
Feb. 15	Kitchen and Mess Hall — Prescott, Ariz. Adv. Jan. 17 to 31.	Jan. 17
Feb. 15	Steel Forging, etc.—Owensboro, Ky.	Jan. 17
Feb. 20	Cement—Milwaukee, Wis. Adv. Jan. 24 and 31.	Jan. 24
Feb. 20	Steel Bars—Milwaukee, Wis. Adv. Jan. 24 and 31.	Jan. 24
Feb. 25	Laundry—American Lake, Wash. Adv. Jan. 24 and 31.	Jan. 24
Feb. 25	Dredging—Plymouth, Mass. Adv. Jan. 31.	Jan. 31
Feb. 26	Water Piping, etc.—Phila., Pa Adv. Jan. 31.	Jan. 31
Feb. 27	Barrack — Puget Sound, Wash.	Jan. 31
Feb. 28	Steel Boat Hull—Huntington, W. Va. Adv. Jan. 31.	Jan. 31
Feb. 28	Dump Scow—Duluth, Minn. Adv. Jan. 31.	Jan. 31
Mar. 1	Turbines—Florence, Ala. Adv. Jan. 17 to 31.	Jan. 17
Mar. 10	Stone—Humboldt Bay, Calif.	Jan. 24

UNCLASSIFIED

Feb. 4	Heating and Ventilating Apparatus—Brooklyn, N. Y.	Jan. 31
Feb. 4	Heating and Ventilating Apparatus—New York, N. Y.	Jan. 31
Feb. 7	Grandstand, etc. — Detroit, Mich.	Jan. 31
Feb. 11	Transformers and Spares—Melbourne, Australia	Jan. 3
Feb. 12	Grade Separation—Springwells, Mich. Adv. Jan. 31.	Jan. 31
Feb. 12	Levee—Jonesboro, Ark.	Jan. 31
Feb. 14	Tower—New Orleans, La.	Jan. 24
Feb. 19	Parking Court—San Francisco, Calif.	Jan. 31
Feb. 25	Sea Wall, Dock and Sewer—New Haven, Conn. Adv. Jan. 31.	Jan. 31
Mar. 31	Hopper Dredge — Brisbane, Queensland, Australia	Nov. 1
Apr. 30	Headworks—Wellington, New Zealand	Dec. 13

MATERIALS AND EQUIPMENT

Feb. 2	Culvert Pipe—South Carolina	Jan. 31
Feb. 4	Road Grader—Columbus, Ind.	Jan. 31
Feb. 4	Lumber—Tipton, Ia.	Jan. 31
Feb. 5	Portland Cement, Crane, Piles, etc.—St. Paul, Minn.	Jan. 31
Feb. 5	Rock Asphalt—Pass Christian, Miss.	Jan. 24
Feb. 5	Lumber, Steel, etc.—Iowa City, Ia.	Jan. 31
Feb. 7	Culvert Pipe, Posts, etc.—Knoxville, Tenn.	Jan. 31
Feb. 8	Crushed Stone—Oshkosh, Wis.	Jan. 31
Feb. 8	Asphaltic Cement, etc.—Trenton, N. J.	Jan. 31
Feb. 8	Stone—Newark, N. J.	Jan. 31
Feb. 11	Coal Tar Pitch Filler, etc. — Cincinnati, O.	Jan. 31
Feb. 13	Pipe—Pierre, S. D.	Jan. 24

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Saratoga—J. P. Wells, engr., Cutler Bldg., Rochester, presented plans to City Council, here, for new reservoir fed by Kayaderoseras Creek, and S. J. Mott, city engr., submitted plans improving present water supply from Longberry Lake. Decision will be made in about 2 weeks in favor of one or the other. $125,000.

N. C., Dunn—Plans new water system, will get water from Cape Fear River 4½ mi. away, involving new reservoir and other additions to present plant. $250,000.

Pa., Phila.—Plans 48 in. steel water main to connect West Phila. water system with main city system, in Girard Ave. from 31st to 40th Sts., and across Schuylkill River on new steel trusses, $250,000, also extending high pressure fire system west of Broad St., in Market and Sansom Sts. between Broad and 23rd Sts. $250,000. Private plans.

N. C., Oxford—Having surveys and plans prepared new water supply. W. C. Olsen, Raleigh, engr.

Fla., Sanford—Voted $375,000 for waterworks plant. F. T. Williams, Sanford, engr. Noted Dec. 27.

O., Columbus—See "Streets and Roads."

Ill., Christopher — Plans addition to waterworks. To exceed $15,000. Mallams & Co., Herrin, engrs.

Wis., Plymouth—Water and Light Comn. making plans new centrifugal pump, 1,000 g.p.m., and one 2 stage air compressor for waterworks. Cahill & Douglas, 217 West Water St., Milwaukee, engrs.

Wis., Viroqua—E. J. Older, city clk., soon takes bids 6 in. mains in Center and Lincoln Aves., Terhune, East Decker, De. Frees and East Court Sts. $15,000-$20,000.

Neb., Fairbury—Plans election to vote on $150,000 bonds for waterworks and electric light plant and distribution system. Hollister Eng. Co., Bankers Life Bldg., Lincoln, engrs.

Mo., Piedmont—Defeated $40,000 bonds waterworks and distribution system. W. A. Fuller Co., Ry. Exch. Bldg., St. Louis, engrs. Noted Jan. 3.

Ark., Altheimer — Having preliminary plans prepared waterworks and distribution system. $25,000. F. Bennett, 1421 Laurel St., Pine Bluff, engr.

Ark., Atkins—Having preliminary plans prepared water works and distribution system, also sanitary and storm sewers. $110,000. Ford & MacCrea, Gazette Bldg., Little Rock, engrs.

Tex., Bridgeport—Defeated $50,000 bonds for waterworks and $18,000 bonds for sewers. New election to be called. Elrod Eng. Co., 3124 Elm St., Dallas, engrs. Noted Jan. 10.

Tex., Cotulla—See "Excavation Drainage Irrigation."

Tex., Mart — Voted $150,000 bonds new lake incl. dam, mains, pumps, etc. Koch & Fowler, Central Bank Bldg., Dallas, engrs. Noted Dec. 20.

Tex., Port Arthur—Having plans prepared extending mains, $119,500: new

Waterworks (Continued)

water pumping units, $91,500. Nagle, Witt & Rollins, c/o C. N. Bates, Deutser Bldg., Port Arthur, engrs. Noted Dec. 13 under "Streets and Roads."

Okla., Clinton—City having surveys made mains, stand pipe, pumping equipment, motor driven centrifugal pumps. $30,000. Engineer not selected.

Okla., Shidler — City plans waterworks system, incl. wells, pumping equipment, elevated tank, 8,600 ft. 4- to 8-in. c.i. pipe. $80,000. Gant Baker Co., 1st Natl. Bldg., Oklahoma City, engr.

Wash., Tukwila—Election in May to vote on $30,000 bonds water system, incl. 1.4 mi. pipe line and large reservoir.

Wash., Vancouver—City plans water supply system, using waters of South Fork of Lewis River. Plans include 30 mi. pipe line. $450,000.

Calif., Riverside—Gage Canal Co. plans 1,300 ft. of 62 in. steel water pipe across Tequesquite Canyon.

BIDS DESIRED

Mass., Armory (Springfield P. O.)—Feb. 11, by Bd. Water Comrs., Municipal Bldg., Springfield, c.i. pipe, etc., f.o.b. Armory. H. M. King, supt.; adv. E. N.-R Jan 31

Mass., Armory (Springfield P. O.)—Feb. 11, by Bd. Water Comrs., Municipal Bldg., Springfield, brass goods, incl. corporations, inverted key curb cocks, etc. H. M. King, supt.; adv. E. N.-R. Jan. 31.

N. Y., New York—Feb. 5, by E. W. Buckley, comr. Purch., Municipal Bldg., pipe and castings to Dept. Water Supply, Gas & Electricity.

Pa., Phila.—Jan. 29, by Dept. Pub. Wks., Bureau of Water, Room 216, City Hall, furnishing c.i. pipe and specials Contr. 662, laying pipe Contr. 663. G. H. Biles, dir.

N. Y., Gloversville—Mar. 4, at office of Bd. Water Comrs., 19 West Fulton St., open distribution reservoir on Ayers Hill. Metcalf & Eddy, 14 Beacon St., Boston, Mass., consult. engrs.; adv. E. N.-R. Jan. 31.

N. Y., Lyndonville—See "Sewers."

N. C., Goldsboro — Feb. 20, by Mayor, rein.-con. sedimentation basin to serve as filter plant 2½ m.g.d., 2 rein.-con. filter tubs, extension of filter plant, filter equipment, 50,000 gal. steel tank, etc. W. C. Olsen, Raleigh, engr.

N. C., Greensboro—Feb. 12, for 28 mi. sewer pipe and 18 mi. c.i. water pipe. $350,000. P. C. Painter, city mgr.

N. C., Smithfield — Feb. 22, by Mayor, rein.-con. sedimentation basin, chemical tanks with agitators, chemical laboratory and furnishing equipment for same, 25,000 gal. steel tank, reconditioning 2 filter units, etc. W. C. Olsen, Raleigh, engr.

La., Melville—Jan. 29, by Mayor and Bd. Aldermen, 125,000 gal. concrete reservoir, c.i. pipes, 50,000 gal. tank on tower, 500 g.p.m. fire pump, 2 crude oil engines, etc. Swanson-McGraw Inc., United Fruit Bldg., New Orleans, engrs.

La., Gibsland — Feb. 5, by City Clerk, 6,090 ft. 6 in., 13,410 ft. 4 in. and 3,100 ft. 2 in. c.i. pipe, 11,250 lb. specials, one 50,000 gal. tank on 75 ft. tower, one 125 and one 250 g.p.m. centrifugal pumps, one 50,000 gal. concrete reservoir, etc. E. T. Archer & Co., 609 New England Bank Bldg., Kansas City, Mo., engrs.

O., Cleveland—Amer. Steel & Wire Co., c/o F. Williams, 8101 Bway., taking bids water softener system, steel tanks on concrete foundations, Jones Rd. $40,000. Private plans.

Ind., Bedford—Feb. 18, for 25,000 lin.ft. c.i. pipe, also valves, hydrants and fittings. J. W. Malott, supt. waterworks.

Ind., Hammond — Feb. 20, at office Bd. Pub. Wks., c.i. or steel pipe. E. W. Miles, clk. Water Dept.; adv. E. N.-R. Jan. 31.

Neb., Dannebrog—Feb. 7, by Henningson Eng. Co., Natl. Bldg., Omaha, one 50,000 gal. tank on 100 ft. tower, one 8 in. tubular well, 65 ft. deep, c.i. pipe, hydrants, etc. $21,750.

Tex., Dallas — City Com. taking bids motor driven pump for Oak Cliff waterworks, 1,250,000 gal. capacity. E. A. Kingsley, city engr. Noted Jan. 10.

Tex., Eastland—See "Street and Roads."

Tex., Georgetown—City Clerk taking bids water softening machine for Water Dept.; water pump for Water & Light Plant. R. E. Ward, mgr.

Calif., Santa Monica—F. J. Townsend, city clk., receiving bids water pipe for new distributing system. $350,000 to $650,000.

BIDS RECEIVED

Mich., Grosse Pointe Park (Detroit P. O.)—Feb. 5, by Village Clerk, 4,000 ft. 6, 12 and 16 in. c.i. pipe in Essex Blvd., Mack and Kercheval Aves. $15,000. C. H. Marden, 502 Whitney Office Bldg., Detroit, engrs.

Wis., Milwaukee—For 2,500 tons water pipe, from U. S. Cast Iron Pipe & Fdry. Co., 122 South Michigan Ave., Chicago, 6 and 8 in. $56.50 per ton, 12 and 16 in. $54.50; special castings 150 tons, from Amer. Cast Iron Pipe & Fdry. Co., 38 South Dearborn St., Chicago, $98 per ton. Noted Jan. 17.

Wis., Neenah—Feb. 5, by Water Comn., H. S. Zemlock, secy., waterworks equipment incl. one 200 hp. 2 cycle oil driven engine with 170 kva. generators and belted exciter; one 700-750 cu.ft. 2 stage air compressor, belt driven; one 42 x 120 in. receiver tank; one 15,000 gal. oil storage tank; one air lift pump, one switchboard.

Wis., Phillips—Feb. 20 (extended date), by C. F. Scheel, clk., one 300 g.p.m. against 175 ft. head and one 1,250 g.p.m. against 275 ft. head centrifugal pumps, motor driven, one 150 hp. oil engine, one 100,000 gal. elevated tank, riser pipe. F. Henry, c/o Courthouse, engr. Noted Jan. 10.

Minn., Minneapolis — F. S. Gram, city purch. agt., Jan. 21, furnishing five thousand ¾-in. corporation cocks, and four thousand ¾-in. curb cocks, etc., for Water Dept., from Mueller Mfg. Co., 512 West Cerro Gordo St., Decatur, Ill., $0.72 and $1.86 each respectively. Noted Jan. 17.

CONTRACTS AWARDED

O., Dayton—See "Sewers."

Wis., Green Bay—Northern Paper Mills, H. Benton, secy., foot Day St., will build 1 and 2 story, 50 x 185 ft. and 30 x 98 ft., filtering plant, brick and concrete, plain foundation, by day labor. $75,000. Private plans.

Wis., Milwaukee—Water Dept. will lay 30 mi. c.i. mains by day labor. J. Schwada, city engr.

Wis., New Holstein—See "Sewers."

Minn., St. Paul — H. W. Austin, city purch. agt., 8,000 lin.ft. 60-in. outside diameter steel pipe, etc., to J. McNeil & Bro. Co., 29th St., Pittsburgh, Pa., $128,900. Noted Jan. 3.

Minn., St. Paul — H. W. Austin, city purch. agt., 35,579 lb. structural steel and 4,023 lb. miscellaneous steel and iron castings, to St. Paul Fdry. Co., Como Ave. and Mackubin St., $2,287; hub-end-nut-operated L. B. gate valves as follows: twenty 4-in., two hundred and six 6-in., thirty 8-in. and forty 12-in., to South Park Fdry. & Machine Co., 23 East 6th St., $12, $19.50, $31.50 and $65 each respectively; thirty 16-in., five 20-in. and four 24-in. to Chapman Valve Mfg. Co., Indian Orchard, Mass., $140, $275 and $415 each respectively. Noted Jan. 17.

Mo., Cameron—For two 300 hp. and one 20 hp. oil engines and generators, two 24,000 gal. storage tanks, 2 switchboard panels, cooling system and pumps, also brick building to house equipment, to W. S. Barnes Agency, Kansas City, $62,000. Noted Oct. 11.

Mont., Kalispell—City, material for water main renewal in Railroad St. between 4th Ave. E. and 8th Ave. W., to United States Cast Iron Pipe & Fdry. Co., 122 South Michigan Ave., Chicago, 545 tons cast iron pipe $70.15 per ton, 10 tons fittings $133.15, total about $40,000.

Wash., Kelso—Pumping and water purification plant, 1 m.g. p.d. capacity, to J. D. Hanley, Kelso, $21,830. Engrs. est. $25,000. Noted Jan. 17.

Calif., Oakland—Had plans prepared improving B St., 69,545 sq.ft. grading, 4,353 lin.ft. concrete curb, 8,706 sq.ft. concrete gutter, 60,478 sq.ft. bituminous concrete pavement; A St., 84,479 sq.ft. grading, 5,408 lin.ft. concrete curb, 10,423 sq.ft. concrete gutter, 73,621 sq.ft. bituminous concrete pavement; 92nd Ave., 90,316 sq. ft. grading, 5,231 sq.ft. concrete curb, 10,193 sq.ft. concrete gutter, 79,690 sq.ft. bituminous concrete pavement; 9th Ave., 52,970 sq.ft. grading, 3,114 lin.ft. concrete curb, 5,875 sq.ft. concrete gutter, 46,877 sq.ft. bituminous concrete pavement; crossings of 22nd Ave. at East 38th and East 29th Aves., 6,180 sq.ft. grading 5,066 sq. ft. oil macadam pavement; portions 105th Ave. and Quince St., 7,230 sq.ft. grading, 436 sq.ft. asphalt concrete pavement, 900 sq.ft. cement walks. W. M. Harmon, city engr.

Calif., Sacramento—City, 57,000 lin.ft. c.i. pipe, to United States Cast Iron Pipe & Fdry. Co., Monadnock Bldg., San Francisco, 2,000 ft. of 12 in. $2.22, 1,000 ft. 10 in. $1.72, 5,000 ft. 8 in. $1.29, 15,000 ft. 6 in. $0.90, for delivery as soon as possible; 10,000 ft. 6 in. $0.90, 2,000 ft. 8 in. $1.29, for delivery about June 1; 10,000 ft. 6 in. $0.90, 3,000 ft. 8 in. $1.29, for delivery about Sept. 1; 2,000 ft. 12 in. $2.22, 2,000 ft. 10 in. $1.72, 5,000 ft. 6 in. $0.90 for delivery Dec. 1. Noted Jan. 24.

Sewers

PROPOSED WORK

N. C., Greensboro—See "Waterworks."

O., Columbus—See "Streets and Roads."

O., Wadsworth—Voted $100,000 bonds disposal plant. Noted Dec. 13.

Ind., South Bend—Plans lateral sewers in Prospect Dr., Indiana, Wenger, Gernhart and Mishawaka Aves., Studebaker, Mason and State Sts. $25,000. J. de Lorenzi, clk.

Ill., Belleville—Having preliminary plans prepared sanitary sewers to drain 1½ mi. Bornman Heights and South 9th St. $25,000. C. A. Heinzelman, City Hall, engr.

Ill., Broadview — Plans sanitary and trunk sewers. $150,000. Consoer Eng. Co., 140 South Dearborn St., Chicago, engrs.

Ill., Pontiac—Having preliminary plans prepared sanitary sewers in North Aurora and West Reynolds Sts. $25,000. G. D. Butzer, City Hall, engr.

Ill., Staunton—Having preliminary plans prepared storm and sanitary sewers, ranging from 10-in. to 60-in. To exceed $100,000. E. F. Harper, c/o Missouri Athletic Club, St. Louis, Mo., engr.

Minn., St. Paul—Plans 10 mi. main sewers, Belt Line System, $1,000,000, and 7 or 8 mi. main sewers, Trout Brook system, $1,000,000, both concrete, up to maximum width of 9 ft. G. H. Shepard, city engr.

Mo., Sikeston—Election about Feb. 15, to vote on $80,000-$90,000 bonds 48-72 in. trunk sewers and disposal plant. Also plans 10- to 36-in. lateral sewers, $100,000-$120,000. W. A. Fuller Co., 1917 Ry. Exch. Bldg., St. Louis, engrs.

Mo., Versailles — E. T. Archer & Co., engrs. 609 New England Bank Bldg., Kansas City, rejected bids Jan. 15, lateral sewers, here. $30,000. Noted Jan. 3.

Ark., Atkins—See "Waterworks."

Tex., Bridgeport—See "Waterworks."

Tex., Houston—Having plans prepared two disposal plants one at Harris Gully other Leeland Ave. $40,000. J. C. McVea, city engr.

Tex., Port Arthur — Having plans prepared extending sewerage system. $132,500. Nagle Witt & Rollins, c/o C. N. Bates, Deutser Bldg., engrs. Noted Dec. 13 under "Streets and Roads."

Tex., Winters — Plans made complete sewerage system and disposal plant. $35,000. Municipal Eng. Co., Praetorian Bldg., Dallas, engrs.

Okla., Tulsa—City having plans prepared and takes bids in April, 12- to 24-in. storm sewers. $800,000. C. Schultz, city engr. Noted Dec. 6.

Colo., Denver—Plans sanitary sewer in South Side Special Sanitary Sewer Dist. 9, 8- to 12-in. vitr. pipe, 180 manholes, etc. $74,969. A. K. Vickery, City Hall, engr.

Calif., San Jose—City having preliminary plans prepared sewer improvements, to exceed $25,000. Burns & McDonnell Eng. Co., 415 Marsh-Strong Bldg., Los Angeles, engrs. Noted Nov. 8.

Calif., Santa Barbara — Making plans drainage system and sewers for eastern section of city. To exceed $25,000. G. D. Morrison, city mgr.

BIDS DESIRED

Conn., New Haven—See "Unclassified."

N. Y., Lyndonville—Feb. 19, by Bd. Village Trustees, sewerage system and disposal works, also 5½ mi. mains, etc. Hopkins & Field, 349 Cutler Bldg., Rochester, engrs.; adv. E. N.-R. Jan. 31. Noted Mar. 15.

N. C., Greensboro — Feb. 12, by O. C. Painter, city mgr., 28 mi. 6, 8, 10, 12, 15, 21 and 24 in. sewer lines.

O., Cleveland—Jan. 30, by Cuyahoga Co., 17,000 ft. 8- to 27-in. vitr. or rein.-con., and 8,000 lin.ft. 30- to 60-in. brick or concrete sewer in Impvt. 10 of Co. Sewer Dist. To exceed $50,000. R. F. MacDowell, Court House, engr.

Ia., Nevada—See "Streets and Roads."

Mo., Carthage—Feb. 11, for 693 lin.ft. 18 in. c.i. and 6,227 lin.ft. 18 and 24 in. clay or concrete sewers, 6,920 lin.ft. 0-18 ft. excav. and 934 cu.yd. rock excav. in intercepting and outfall sewers; pumping station, Imhoff tank, trickling filter, sludge drying bed, 4,050 cu.yd. earth, 5,000 cu. yd., borrow and 276 cu.yd. rock excav., 250 cu.yd. plain concrete and 788 cu.yd. rein.-con., etc., in sewage treatment plant

Sewers (Continued)

$108,000. C. A. Haskins, 517 Finance Bldg., Kansas City engr. Noted Nov. 15.

BIDS RECEIVED

Calif., El Monte — See "Streets and Roads."

CONTRACTS AWARDED

Md., Baltimore—City Register, 400,000 lb. manhole, a sewer inlet and similar iron castings, to Amer. Brake & Shoe Fdry Co., Fulton Station. $0.0335 per lb. Noted Jan. 24.

O., Dayton—For 1,100 ft. of 24 in. vitr. storm sewer in Abbey Ave., also 800 ft. 16 in. c.i. high pressure main across Mad River, to F. Hall, 55 Bank St., $19,813 and $11,982 respectively. Engrs. est. $20,000 and $13,000 respectively.

O., Toledo—Homeville Company, 18,720 cu.yd. excav., 1,762 ft. 7 ft. 6 in. rein.-con. box culvert, and 350 ft. 42 in. segmental block pipe in Ditch 561, to C. W. Hanneman, Monroe, Mich., $57,243. Engrs. est. $70,000.

Wis., New Holstein—Sewerage and water systems, to Ribbens Bros., Mayville, $89,-707; c.i. pipe and fittings, to Natl. Cast Iron Pipe Co., 122 South Michigan St., Chicago, $28,022; elevated steel tank, to Chicago Bridge & Iron Wks., 608 South Dearborn St., Chicago, $6,275. Noted Jan. 3.

Minn., St. Paul—Outlet sewer in Portland Ave. from Mississippi River to point 990 ft. east, to DeGraff Wolff, 985 Scheller St., $25,780; Davern-West 7th St. system No. 1, 500 lin.ft. 5 x 8 ft. concrete sewer, 5,753 ft. sandrock tunnel, 1,284 ft. 4 ft. x 6 in. sewer, 1,135 ft. 3 ft. x 6 in. sewer, 3,683 ft. 12- to 30-in. sewer, manholes, etc., to Thornton Bros Co., 318 Endicott Bldg., $206,587. Noted Jan. 17.

Tex., Dallas—Concrete and vitr. mains and laterals in Frederica, Henderson and Lewis Sts., to T. S. Miller, Jr., 800 North Crawford St., $50,174; storm sewers in East Grand Ave., to Municipal Excav. Co., 800 North Crawford St., $31,970.

Okla., Stroud — Main sanitary sewers, disposal plant, and lateral sewers, to H. L. Cannady Co., Tulsa, $94,622. Noted Dec. 10.

Calif., Long Beach—City, Golden Gate Ave. storm drain to United Concrete Pipe Co., P. O. Box 6, Ventura, $165,000, incl. 1,474 lin.ft. of 8 in. corrugated iron pipe, 16 gage, 16,065 lin.ft. 8- to 16-in. cement pipe, 9,480 lin.ft. 18- to 42-in. reinforced cement pipe, 134 standard catch-basins, 105 ft. cement concrete bulk head, etc.

Calif., Los Angeles—City, furnishing 55,000 vitr. clay sewer lining blocks, Model C for Sect. 9 of North Outfall Sewer, to Pacific Clay Products, Inc., Amer. Bank Bldg., $184 per M. Noted Jan. 3.

Calif., Newport Beach—City Council, Balboa Island sewerage system, to Gibbons-Reed, 905 South Olive St., Los Angeles, $133,655. Noted Jan. 17.

Calif., Orange—Constructing 2 sections outfall sewer, to C. E. Green, Western Mutual Bldg., Los Angeles, $41,982 and $19,944. Noted Jan. 24.

Bridges

PROPOSED WORK

New Jersey—State Hy. Dept., Trenton, received no bids Jan. 28, repairs on 395 ft. draw span, 59 ft. wide, over Passaic River, in municipalities of Newark and Kearny, Essex and Hudson Counties. Will readvertise. J. L. Vogel, 772 Broad St., Newark, engr. Noted Jan. 10.

N. J., Newark—Essex Co. plans 1 span 14 ft. rein.-con. bridge, Brooklawn Rd., in Montclair, $10,000; also 1 span 28 ft. rein.-con. bridge, Linden St. in Verona, $16,000. W. A. Stickel, Court House, engr.

Miss., Grenada—See "Streets and Roads."

Kentucky—State Hy. Dept., Frankfort, plans 430 ft. steel superstructure, two 150 ft. and one 130 ft. spans, concrete substructure, over Big Sandy River on State Project 6, Pike Co. J. S. Boggs, state highway engr.

Ky., Hickman—See "Streets and Roads."

O., Cincinnati—Plans temporary timber bridge, 8th St. $130,000. F. Krug, City Hall, engr.

O., Massillon — Had preliminary plans prepared 3 track concrete and steel bridge, West Main St. To exceed $25,000. Wendell P. Brown Co., Finance Bldg., Cleveland, engrs.

Wis., Reedsburg — Plans rein.-con. and steel bridge over Baraboo River. $30,000. A. F. Niebuhr, city clk. Engineer not selected.

Ill., Kankakee—Kankakee Co. plans steel truss highway bridge over Kankakee River. To exceed $25,000.

Minn., Minneapolis—Northfield & Southern Ry. Co., 209 Lincoln Bank Bldg., plans bridge over Mississippi River. $400,000. M. J. Dooley, genl. mgr.

Kan., Hutchinson—Reno Co. soon lets contract, 3 Federal aid bridges, ten 45 ft. concrete deck girder spans over Arkansas River, $45,000; one 100 ft. concrete span over Ninnescah River, $10,000; one 90 ft. steel span, three 20 ft. concrete approach spans over Silver Creek, $16,000. W. A. Stacey, co. engr. Noted Nov. 1.

Tex., Cameron—See "Streets and Roads."

Tex., Fairfield—See "Streets and Roads."

Wash., Seattle—Making plans 182 ft. double leaf, trunnion bascule with rein.-con. gothic towers, 68 ft. approaches 40 ft. roadway, two 12-ft. walks, over Lake Washington known as Montlake Bridge. J. D. Blackwell, city engr.

Calif., Bakersfield—Kern Co. plans 200 ft. rein.-con. bridge over Cottonwood Creek on Kern River Canyon Rd. F. E. Smith, clk.

California—Southern Pacific R.R. Co., 65 Market St., San Francisco, having plans prepared steel railway viaduct over Calaveras River, San Joaquin Co., near Stockton. To exceed $75,000. G. W. Boschke, ch. engr.

BIDS DESIRED

S. C., Abbeville—Feb. 6 by Abbeville Co. Hy. Comn., bridges on Federal Aid Project 221, State Route 7, one rein.-con. bridge with three 22 ft. and one 43 ft. spans; rein.-con. bridge four 30 ft. and one 52 ft. spans; rein.-con., steel and creosoted timber bridge of one 100 ft. steel and seventeen 14 ft. creosoted timber spans; creosoted timber bridge eight 14 ft. spans; creosoted timber bridge two 14 ft. spans and one 6 x 6 rein.-con. culvert.

Illinois—See "Streets and Roads."

Wyoming—Feb. 5, by State Hy. Comrs., Cheyenne, 21 small timber trestle bridges, Kemmerer-Marbleton Rd., Lincoln and Sublette Counties, 170,000 ft. treated bridge timber in place. $60,000. Timber furnished by State, cost and overhead included in estimate. J. F. Seiler, Cheyenne, engr. Noted Nov. 15.

Tex., Houston—See "Streets and Roads."

Tex., Houston—Feb. 11, by Comrs. Harris Co., concrete bridges on Houston Ave. extension and Clinton Rd. $25,000. Howe & Wise, co. engrs.

Calif., San Diego — See "Streets and Roads."

Que., St. Anne de Bellevue—Mar. 10, by A. Galipeault, minister Dept. Pub. Wks., Quebec, constructing Taschereau Bridge connecting Perrot Island with St. Anne de Bellevue. $500,000. Noted Dec. 27.

BIDS RECEIVED

Calif., Weitchpec—Humboldt Co., (Eureka), reconstructing cable suspension bridge over Klamath River, here, incl. steel truss span, 385 ft. long, steel towers, from Padgett & Kelly, Eureka, $24,379. Noted Jan. 17.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, rein.-con. bridge to carry Gravois Ave. over River Des Peres, from H. A. Henske, 1504 St. Louis Ave., $104,756. Engrs. est. $105,588. Noted Dec. 27.

Tex., Halletsville—Lavaca Co., one 258 ft., one 156 ft., one 188 ft. and one 446 ft. steel and concrete spans, on State Highway 3-B, and 22 concrete piers, abutments and piling, from L. E. Sanders, San Antonio, $124,964.

CONTRACTS AWARDED

W. Va., Parkersburg—Baltimore & Ohio R.R. Co., Baltimore and Charles Sts., Baltimore, Md., 300 ft. truss span, three 80 ft. girder spans, 1,031 ft. of steel viaduct over Little Kanawha River, to Fort Pitt Bridge Co., Oliver Bldg., Pittsburgh, Pa.

Kentucky — State Hy. Dept., Frankfort, steel bridges over Cumberland River, one 240 ft. and two 150 ft. spans, superstructures, to F. K. Kelter, 7344 Yates Ave., Chicago, $44,377; concrete substructure (2 abutments each), to Blanchard Crocker Co., Lexington, $24,359. Noted Jan. 17.

Minn., St. Paul — Great Northern R.R., 4th and Jackson Sts., 3 through plate girder spans and 1 deck plate girder, involving 158 tons structural steel, to Amer. Bridge Co., Ambridge, Pa. Engrs. est. in excess of $25,000.

Mo., Kansas City—Bd. Pub. Wks., steel and rein.-con. bridge, to M. E. Gillioz, Monett, $126,080.

Mo., Mt. Washington—Bd. Pub. Wks., rein.-con. and steel bridge, 60 ft. wide, over Blue River on Independence Rd., to M. E. Gillioz, Monett, $126,080.

Oklahoma—State Hy. Dept., Oklahoma City, four 120 ft. steel trusses on concrete piers and abutments, over North Fork of Canadian River, Federal Aid Project 113, Oklahoma Co., to Kansas City Bridge Co., Orear-Leslie Bldg., Kansas City, Mo., $75,834; four 96 ft. trusses and one 20 ft. one beam bridge on concrete piers and abutments over Salt Fork Arkansas River, Federal Aid Project 123, Oklahoma Co., to Pioneer Constr. Co., New York Life Bldg., Kansas City, Mo., $52,849. Noted Jan. 10.

Okla., Cleveland—Cleveland and Osage Counties, 1,776 ft. bridge, 7 through steel truss spans, over Arkansas River, here, to General Constr. Co., Baltimore Bldg., Kansas City, Mo., $220,100.

Dams

PROPOSED WORK

Mo., Bagnell—W. Cravens, et al. plans 100 ft. dam on Osage River about 8 mi. above here, with water fall developing 50,000 hp.

Wash., Everett—See "Industrial Works."

Calif., Wheatland — See "Excavation, Drainage, Irrigation."

BIDS DESIRED

Pa., Phila.—Feb. 14, by Director Pub. Wks., Room 216 City Hall, overflow dam, 1,200 ft. long, maximum height 35 ft., in southern portion of Fairmount Park across Schuylkill River, 12,000 cu.yd. earth and 8,000 cu.yd. rock excav., 35,000 bbl cement, etc. $700,000.

Railways

PROPOSED WORK

North Carolina — Snow Hill R.R. Co., Snow Hill, plans 6 mi. road between Snow Hill and Hookerton. Applied to Interstate Commerce Comn., Wash., D. C., for necessary authorization. $500,000.

Indiana—Southern Indiana Gas & Electric Co., 124 South 2nd St., Evansville, plans removing and relocating its tracks in Garden City, north of Evansville. Work includes moving tracks 327 ft. west of present location, for about 1 mile. F. Haas, vice-pres. and genl. mgr.

Minnesota — Northfield & Southern Ry. Co., 209 Lincoln Bank Bldg., Minneapolis, plans constructing 8½ mi. single track from Oxboro Heath to Ford plant. $1,350,000. M. J. Dooley, genl. mgr.

Missouri—Missouri Kansas & Texas R.R. Railway Exch., St. Louis, plans new rails, 90 lb. type to replace old rail, etc. $430,-000; ballasting roadbeds with chat and macadam $250,000; round house work at various points $48,000. Private plans.

Texas—Dallas Ry. Co., Interurban Bldg., Dallas, had plans prepared improvements to State St. car line in connection with paving. Work includes new steel rails and paving on Trinidad St. $25,000. B. R. Brown, Interurban Bldg., Dallas, engr.

Oklahoma—Commerce Mining & Realty Co. making preliminary plans 65 mi. electric railway from Miami to Pawhuska. A. Robinson, pres.

Oregon—Southern Pacific R.R., 65 Market St., San Francisco, soon lets contract grading 11 mi. section of Natron Cut-Off from Summit to Oakridge, Ore. Work includes heavy grading and several tunnels.

CONTRACTS AWARDED

Missouri—M. Raming, city purch. agt., Kansas City, grading for railroad siding ¾ mi. long, relocating electric railroad and highway about ¾ mi. long, 300,000 cu.yd. earth and rock excav., north of Kansas City, to Spitcaufsky Bros., 3229 Victor St., Kansas City, $343,845. Noted Jan. 3.

Oregon—Southern Pacific R.R. Co., 65 Market St., San Francisco, clearing 11 mi. Natron Cut-Off from Summit to Oakridge, here, to Tully & Sullivan, Seattle, Wash.

Excavation, Drainage, Irrigation

PROPOSED WORK

Washington—Skyhomish Recl. Co. plans to reclaim 9,000 acres of land in Padilla Bay Dist. in Skagit and Whatcom Counties. Work includes dyke 8 mi. long, 5-20 ft. high and 335 ft. wide at base, around Padilla Bay. $1,300,000. F. Waldron, Seattle, genl. mgr. F. C. Brown, Lyon Bldg., Seattle, attorney.

Tex., Cotulla—International Great Northern Ry., Palestine, and private investors, having surveys made irrigation reservoir-dam, in Nueces Valley, 5 mi. from here. U. S. Geological Surveyors co-operating with State Bd. Water Engineers and are making surveys. $600,000 first unit.

Calif., Dixon—Dixon Recl. Dist. plans to reclaim and irrigate 30,000 acres. Will install pumping plants and construct 17 mi. main canal and 40 mi. laterals. To exceed $950,000. F. C. Herman, Merchants Exch. Bldg., San Francisco, consult. engr.

Tex., Port Arthur — City having plans prepared Shreveport canal conduit. $69,500. Nagle Witt & Rollins, c/o C. N. Bates, Deutser Bldg., engrs. Noted Dec. 13 under "Streets and Roads."

Calif., Stacy—Irrigation Dist. having preliminary plans prepared irrigation works, incl. concrete diversion dam, 5 ft. high, 50 ft. long, 8 ft. wide at bottom; storage dam, 32,350 acre ft. capacity, concrete or earth construction, etc. To exceed $250,000. C. R. Caudle, Stacy, consult. engr.

Calif., Wheatland—Camp Far West Irrigation Dist. having preliminary plans prepared 2 mi. main canal and system of distributing laterals, concrete dam 55 ft. high, 230 ft. long on top. $125,000. J. A. Shields, Auburn, engr.

BIDS DESIRED

Tex., La Feria — Feb. 9, by La Feria Water Impvt. Dist. 3 dredging from Military Rd. to River Pump in main canal, Cameron Co. $25,000. A. P. Taliaferro, La Feria, engr.

CONTRACTS AWARDED

La., Lake Charles—Police Jury Calcasieu Parish, Court House, constructing Sect. 3 Navigation Channel, from Sta. 714 to 580, 2.54 mi., 2,020,000 cu.yd. excav., to Atlantic Gulf & Pacific Co., 13 Park Row, New York City, $212,100; Sect. 5 of Navigation Channel from Sta. 58 to 322, 5 mi., 3,480,000 cu.yd. excav., to Hampton Reynolds Guarantee Title Bldg., New Orleans, $394,980. Noted Dec. 27.

Streets and Roads

PROPOSED WORK

Connecticut—State Hy. Dept., Hartford, plans paving 2.5 mi. New Britain-Hartford Turnpike, concrete. $100,000. J. A. MacDonald, state highway comr.

N. Y., Albany—Takes bids in February paving 1,185 ft. Grand St., 46 ft., bitulithic on granite blocks. J. G. Brennan, City Hall, engr.

Pa., Cresson—Plans 1 mi. brick paving on Park, Laurel, Ashcroft, Keystone, Powell and Cathedral Aves. $40,000. D. W. Dillman, Altoona Trust Bldg., Altoona, engr.

Pa., Mercer—Mercer Co. plans slag and ash roads: 6,000 ft. in Pine Twp. and 8,000 ft. in Findlay Twp. $25,000. F. P. Graham, Grove City, co. engr.

W. Va., Grantsville—Calhoun Co. voted $100,000 bonds 9.5 mi. roads. State will appropriate toward cost. Noted Jan. 10.

N. C., Ahoskie—Plans paving Main St., type not decided. $25,000 or more.

N. C., Bryson City—Swain Co. having plans prepared road from here to Noland. $65,000. S. E. Varner, chn. Bd. Comrs. State Hy. Comn., Raleigh, engrs.

Ga., Macon—Plans resurfacing 5th St. $28,500.

Miss., Grenada—Grenada Co. will take new bids soon improving Federal Aid Project 147-A, incl. 23,656 cu.yd. common and 56,124 cu.yd. borrow excav., 31,974 lb. reinforcing steel in culverts, 327.72 cu.yd. concrete in culverts, bridges over 20 ft. span incl. 485.83 cu.yd. concrete, 52,690 lb. reinforcing steel, 14,261 units gravel ¼ mi. overhaul, etc. $108,000. No award made Dec. 17, on account of injunction filed by objectors. H. C. Dietzer, c/o State Hy. Dept., Jackson, engr. Noted Nov. 29.

Tennessee — Dept. Hy. & Pub. Wks. having surveys made grading 11 mi. road from Milan to Madison Co. line, 18 ft., Gibson Co. J. G. Creveling, comr.

Tennessee — Dept. Hys. & Pub. Wks., Nashville, soon takes bids grading, bridges, etc., 4.5 mi. road from Haywood Co. line to Fayette Co. line, 18 ft., Tipton Co. J. G. Creveling, comr. Noted Aug. 30.

Tennessee — Dept. Hys. & Pub. Wks., Nashville, soon takes bids grading and cement concrete surfacing 11 mi. road from Athens to Monroe Co. line, 18 ft., McMinn Co. J. Creveling, comr. Noted Oct. 18.

Tennessee — Dept. Hys. & Pub. Wks., Nashville, soon takes bids grading 8 mi. road from Clinton to Knox Co. line, 18 ft., Anderson Co. $100,000. J. G. Creveling, comr. Noted Oct. 4.

Tenn., Chattanooga—City plans grading and surfacing 6th, 10th, Chestnut, King, Newly, Pine, Lindsay, Dodds and Cherry Sts. $240,000. Grading will probably be done by day labor. E. Bass, comr.

Tenn., Dandridge — Jefferson Co. plans grading and surfacing New Market Rd. $75,000.

Tenn., Jackson—Madison Co. authorized expenditure of $500,000 for roads.

Tenn., Tiptonville — Sold $51,000 bonds half of which is for construction of streets.

Kentucky—State Hy. Dept., Frankfort, plans constructing and surfacing with concrete or macadam, 10.5 mi. road from Grant Co. line to Sta. 556, 18 ft., Federal Aid Project 115, Scott Co. J. S. Boggs, state highway engr.

Ky., Fulton—Fulton Co. election Feb. 5, to vote on $450,000 bond issue for roads.

Ky., Hickman—Fulton Co. election Feb. 5, to vote on $450,000 bonds for roads and bridges.

O., Barberton—Plans paving High St., probably asphalt. To exceed $25,000. M. Witner, mayor. Engineers name withheld.

O., Canton—Plans paving ½ mi. Hazlette Ave. N. W., 40 ft. $30,000. W. E. Sarver, City Hall, engr.

O., Columbus — Making plans grading, laying necessary water services and sewer connections and paving 4,887 ft. Cole St. and Livingston Ave., brick $89,829 or asphalt $73,359; 816 ft. alley north of Thurman Ave. (Redbud Alley), concrete $4,523 or brick $5,167. R. H. Simpson, city engr.

O., Columbus—Plans widening and asphalt paving 1,908 ft. Grant Ave., from 32 to 44 ft. $36,494. R. H. Simpson, city engr.

O., Dayton — City and Montgomery Co. plan paving about 5,500 sq.yd. Wilmington Pike, concrete, brick or Kentucky rock asphalt. $25,000. City to pay ¾ and county ¼ of cost. J. F. Hale, city engr.

O., Dayton — Montgomery Co. making plans paving 3.25 mi. North View, Marie, Emerson, Brookside and Hudson Aves., brick, concrete or asphalt. Sold $119,000 bonds for project. W. O. Pease, surv.

O., Marietta—Plans widening and rein.-con. paving Greene St. $92,376. C. Stone, Marietta, engr.

O., New Philadelphia — Tuscarawas Co. plans rebuilding 2 sections New Philadelphia-Uhrichsville Rd., 2.5 mi. long, 18 ft. wide. $50,000-$75,000. C. E. Stingel, Court House, engr.

Ind., Columbia City—Plans paving Elm St. part 26 ft. wide, balance 16 ft.; Chicago St., 26 ft. wide, brick is specified, but other materials will be considered. $30,000-$35,000. Dept. Pub. Wks., engrs.

Ind., Evansville—Plans paving Hart Ave., various materials to be considered. $25,000. J. D. Saunders, city engr.

Ind., Ft. Wayne—Bd. Pub. Wks. plans paving South Wayne Ave., to exceed $25,000, and Pontiac St., to exceed $25,000, various materials will be considered, but will probably use asphalt. Engineering Div., engrs.

Ind., Ft. Wayne—Plans paving Clayton St., various materials $25,000. H. Strodel, street comr.

Ind., Kokomo—Plans paving East Markland Ave. and East Vaille St., brick or asphalt. To exceed $25,000. B. C. Moon, mayor.

Ind., Muncie—Delaware Co. plans cement paving and curbing 1.25 mi. Hackley St., 30 ft., Center Twp. $38,000. J. P. Draggoo, aud.

Ind., South Bend—Plans to grade, curb, gutter and lay cement sidewalks on 10 streets. $25,000. J. de Lorenzi, clk.

Ill., Dwight—Having preliminary plans prepared grading, concrete curbing, guttering and paving 1,600 ft. Pollard and North Sts. $150,000. Consoer Eng. Co., 140 South Dearborn St., Chicago, engrs.

Ill., Waukegan—Plans paving Mott Ave., North Victory, Clayton, 9th, Wadsworth, Adams, Prescott and Victory Sts., various types incl. concrete and brick. To exceed $25,000. M. J. Douthilt, City Hall, engr.

Wis., Kaukauna—Making plans paving 8 blocks Wisconsin Ave., 30 ft., bids on 3 types incl. concrete. F. M. Charlesworth, c/o City Hall, engr.

Ia., Moulton—City making plans paving 20 blocks. $80,000. Henningson Eng. Co., Natl. Bank Bldg., Omaha, Neb., engrs.

Ia., Stanton — Plans paving 10 blocks Dist. No. 1, Nebraska and Pacific Aves. $40,000. W. C. Cook, clk.

Minn., Preston — Comrs. Fillmore Co. voted to issue $150,000 bonds for highways. F. J. Ibach, aud.

Neb., Imperial—Chase Co. had plans prepared and soon takes bids graveling 7.634 mi. Federal Aid Project 206, Chase Co., 37,700 cu.yd. earth excav., 98,600 yd. gravel, etc. R. L. Cochrane, Lincoln, engr.

Neb., Schuyler—Colfax Co. had plans prepared and soon takes bids graveling 8.23 mi. Federal Aid Project 213, Colfax Co., 19,000 cu.yd. excav., 96,270 yd. gravel. R. L. Cochrane, Lincoln, engr.

South Dakota—State Hy. Dept., Pierre, plans to gravel surface 159.8 mi. roads in Sanborn, Brule, Aurora, Hutchinson, Lincoln, Douglas, Bon Homme, Deuel, Butte, McPherson, Turner, Minnehaha, Lake, Law-Meade and Union Counties. F. D. Hudgins, state engr.

Missouri—State Hy. Dept., Jefferson City, plans grading, etc., 5 mi. State Project Route 3, Greene Co. B. H. Piepmeier, state highway engr.

Missouri—State Hy. Dept., Jefferson City, plans grading, etc. 5 mi. State Project Route 19, Dent Co., also 5 mi. State Project Route 16, Wright Co., both 30 ft. B. H. Piepmeier, state highway engr.

Missouri—State Hy. Dept., Jefferson City, plans grading 5 mi. State Project Route 15, Sect. 71, 30 ft. Camden Co. B. H. Piepmeier, state highway engr.

Missouri—State Ry. Dept., Jefferson City, plans grading, etc. 4.5 mi. State Project Route 10, 30 ft., Randolph Co. B. H. Piepmier, state highway engr.

Tex., Bay City—Matagorda Co. had plans prepared and soon takes bids grading and shell surfacing, etc. 8.25 mi. State Highway 60, 15 ft. $72,235. E. N. Gustafson, Angleton, engr.

Tex., Cameron—Milam Co. election March 5, to vote on $125,000 bonds for improving Rd. Dist. 6, construction and maintenance of roads centering around Thorndale. A. F. Mitchell, co. engr.

Tex., Carrizo Springs—Dimmit Co. making plans grading and surfacing highway. $234,000. J. G. Lott, co. engr.

Tex., Cuero—De Witt Co. election Mar. 8, to vote on $135,000 bonds grading and surfacing Cuero-San Antonio Highway. Noted Nov. 29.

Tex., Dallas—See "Railways."

Tex., Del Rio—Election soon to vote on $100,000 bonds permanent paving principal streets. Address Mayor.

Tex., Eagle Pass—Maverick Co. having plans prepared bituminous macadam paving 25 mi. Eagle Pass-Carrizzo Springs Rd., 16 ft. $425,000. J. W. Ardle, Eagle Pass, engr. Noted Jan. 17.

Tex., Electra—Having plans prepared brick and bituminous paving 40 blocks. $90,000. Elrod Eng. Co., 3124 Elm St., Dallas, engrs.

Tex., Fairfield — Freestone Co. having plans prepared grading, hard surfacing and bridging highways, 16-18 ft. $1,000,000. J. E. Johnson, Orange, engr. Noted Jan. 3.

Tex., Gonzales — Gonzales Co. election Feb. 23 to vote on $150,000 bonds grading and gravel surfacing 15 mi. Nixon-Smiley Sample Sect. of Glacier to Gulf Highway, 18 ft. J. G. Irby, co. engr. Noted Jan. 10.

Tex., Hillsboro—Hill Co. election Feb. 29, to vote on $150,000 bonds for Malone Rd. Dist. and $200,000 for Penlope Rd. Dist. G. Johnson, co. engr.

Tex., Nacogdoches—Had plans prepared paving, curbing and guttering 7,500 sq.yd. West Pillar, West Main, Irion and Hill Sts., probably brick. $25,000. O. L. Forsgard, city engr.

Streets and Roads (Continued)

Tex., Pecos—Reeves Co. had plans prepared grading and caliche surfacing 3.78 mi. State Highway 3, 16 ft. $36,500. A. J. Adcock, Balmorhea, co. engr.

Tex., Port Arthur—Having plans prepared permanent paving various streets, asphalt, $289,600; gravel and shell paving various streets, $170,000. Nagle Witt & Rollins, c/o C. N. Bates, Deutser Bldg., engrs. Noted Dec. 13.

Tex., San Antonio—Plans authorized by City Comrs. widening 6 blocks South Flores St., 10 ft. on each side. $75,000. I. Ewig, city engr.

Tex., San Antonio—Bexar Co. preparing plans permanent paving 1.25 mi. Rigsby Ave., 40 ft., 8 in. macadam. $64,168. I. Ewig, City Hall, engr.

Tex., Sulphur Springs—Hopkins Co. having plans prepared grading and surfacing with macadam base and inverted penetration bituminous top 7.8 mi. State Highway 1, 18 ft. $195,400; 24.9 mi. Jefferson Rd., 18 ft., $545,600. J. B. Rieman, co. engr.

Tex., Venus—Making plans permanent paving various streets. $25,000 bonds voted, property owners to pay $50,000. H. N. Roberts, 4227 Irving St., Dallas, engr.

Okla., El Reno—Plans grading and paving 7 blocks Hoff, Hays and Woodson Sts., 7,100 sq.yd. asphalt, 2,950 lin.ft. curbing and 2,600 cu.yd. excav. $32,000. H. G. Olmsted, 2230 West 18th St., Oklahoma City, engr.

Okla., Oklahoma City — Plans grading and paving 15th, 45th, 19th, Western and Madison Sts., 7,900 sq.yd. asphalt, 4,150 lin.ft. curbing, 2,400 cu.yd. excav. $38,000. B. M. Hart, City Hall, engr.

Colo., Denver—Plans asphaltic paving, concrete curbing where necessary on 12 blocks in West Denver Paving Dist. 5 $49,125, 12 blocks Capitol Hill Paving Dist. 8 $49,091, 12 blocks West Denver Paving Dist. 4 $55,652, 12 blocks South Capitol Hill Paving Dist. 1 $46,057; asphaltic paving 12 blocks South Capitol Hill Paving Dist. 3 $43,223, 12 blocks Capitol Hill Paving Dist. 12 $41,757, 12 blocks Washington Park Paving Dist. 3 $29,409; grading, surfacing, concrete curbing and guttering 12 blocks West Denver Impvt. Dist. 3 $38,823. A. K. Vickery, City Hall, engr.

Nevada—State Hy. Comn., Carson City, had plans prepared 3.2 mi. concrete and gravel road, in Las Vegas and gravel surfacing 13 mi. road from Yerington to east county line, Lyon Co. G. W. Borden, state highway engr.

Wash., Chehalis—Comrs. Lewis Co. take bids about Feb. 5, concrete paving 1 mi. Lewis County Rd. to north county line. $35,000. R. L. Greene, Chehalis, engr.

Wash., Mt. Vernon—Comrs. Skagit Co. take bids about Feb. 20, concrete paving 8 mi. Wickersham Rd. to Whatcom Co. line. $250,000 bonds sold. F. Gilkey, Mt. Vernon, engr.

Wash., Tacoma—Pierce Co. making plans paving 4.98 mi. roads, $118,084, grading and graveling 30.35 mi., $61,013 C. H. Votaw, co. engr.

California—State Hy. Comn., Sacramento, having plans prepared grading and rock surfacing 13 mi. highway from terminus of Plank Rd. to Yuma, Imperial Co., incl. 94,000 cu.yd. excav., unclassified. R. M. Morton, state highway engr.

Calif., Azusa—Plans to vote on $50,000 bonds paving various streets.

Calif., Bakersfield — City and Kern Co. plan paving Baker St. and California Ave. $120,000.

Calif., Fresno—Fresno Co. having plans prepared for 5 in. asphaltic concrete paving, concrete curbs and walks and installing electrolier lighting system in Rd. Impvt. Dist. 5. To exceed $25,000. C. P. Jensen, co. surv.

Calif., Gilroy—Plans improving various streets, Warrenite pavement. To exceed $350,000. C. E. Sloan & Co., Santa Fe Bldg., San Francisco, consult. engrs.

Calif., Glendale—Had plans prepared paving Kenilworth, Vine and Riverside Sts., 43,720 sq.ft. grading, 26,374 sq.ft. 5-in. macadam, 1,503 ft. curb, 7,770 sq.ft. walks; Justin, 10th and Kenneth Sts., etc., 88,945 sq.ft. grading, 59,965 sq.ft. 3-in. macadam, 2,578 ft. curb, 13,085 sq.ft. walks, 4,535 sq.ft. gutter. B. F. Dupuy, city engr.

Calif., Palo Alto—Plans improving various streets, 700,000 sq.ft. 6 and 7 in. concrete. To exceed $125,000. J. F. Bxybee, Jr., city engr.

Calif., Redwood City — San Mateo Co. having surveys made improving roads between El Camino Real and Skyline Blvd. To exceed $25,000. G. A. Kneese, surv.

Calif., Santa Paula—Had plans prepared improving River St., et al., 250,000 sq.ft. asphaltic concrete pavement. H. E. Reddick, city engr.

Calif., Santa Ana—Plans paving various streets. To exceed $400,000. W. G. Knox, city engr.

Calif., Stockton—San Joaquin Co. having plans prepared grading and paving Chicester Rd., with oil macadam. $25,650. F. E. Quail, co. surv.

Calif., Ventura—State Hy. Comn., Sacramento, having plans prepared causeway, here, incl. removing present wooden causeway and constructing concrete seawall, sand fill behind, 20 ft. pavement on top. To exceed $250,000. R. M. Morton, Sacramento, state highway engr.

Ont., Chatham—Suburban Area Comn. plans cement highways in section of Harwich, Chatham and Dover Twps. $200,000. Prices wanted on materials. W. G. McGeorge, 153 Queen St., engr.

BIDS DESIRED

N. Y., Brooklyn—Feb. 6, by E. Riegelmann, boro pres., Boro Hall, grading, curbing and flagging Lenox Rd., Ave. M, 2nd Ave., East 7th, East 18th, East 34th, East 37th, Montgomery, West 3rd, West 8th, West 13th, 57th, 70th, 76th and 82nd Sts.; paving Jerome Ave., 2nd hand granite, paving Bay 28th and 38th Sts., Blake, Highland, Homecrest, Lefferts, and 12th Aves., East 7th, East 34th, Maple, Union, West 8th, 40th, 57th, 70th and 81st Sts., all foregoing permanent sheet asphalt on 6 in. concrete; curbing and asphalt paving Elmore Pl., Ave. I and West 7th St.; curbing and laying sidewalks on Liberty Ave.; grading, curbing, flagging and laying sidewalks on Ave. S; laying sidewalks on 70th St.

N. Y., Buffalo—Feb. 2, by J. F. Burke, 577 Ellicott Sq. Bldg., improving sub-division streets north of Kensington Ave., 8,900 lin.ft. To exceed $40,000. G. C. Diehl, 577 Ellicott Sq. Bldg., engr.

N. J., Newark—Feb. 8, by G. C. Bergen, purch. agt. Essex Co., grading and paving 0.5 mi Bay Ave. in Bloomfield and Glen Ridge, 30-36 ft., granite block and sheet asphalt on 6 in. concrete. $50,000. W. A. Stickel, Court House, engr. Noted May 3.

N. J., Salem—Feb. 12, by Road Com. of Bd. Freeholders Salem Co., reconstructing Sect. 1 Carlls Corner Rd., concrete. H. B. Keasbey, co. engr.; adv. E. N.-R. Jan. 31.

S. C., Charleston—Feb. 7, by Sanitary Drainage Comn., 39 Broad St., constructing 6.6 mi. cement clay, gravel road, incl., 43,500 cu.yd. excav., 25,000 tons cement clay gravel, etc.

Ala., Tuscaloosa—Mar. 1, by Judge Finnell of Tuscaloosa Co., constructing 7 mi. road from University of Alabama to Castle Hill and from Warrior River bridge to Newport, 27,589 sq.yd. concrete.

Ohio—Feb. 15, by Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving 46.079 mi. roads in Adams, Columbiana, Cuyahoga, Delaware, Geauga, Mahoning, Medina, Paulding, Perry, Pickaway, Stark, Summit and Washington Counties; grading, etc., 3.073 mi. roads in Gallia and Vinton Counties; concrete widening 1.648 mi. road in Richland Co. A. V. Donaheys, dir. highways.

Illinois—Feb. 15, by Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, paving 151.5 mi. road, grading one section and building 7 bridges. C. H. Older, ch. highway engr.

Wis., Plymouth—Feb. 26, by H. A. Luedtke, city clk., 40,000 sq.yd. pavement, rein.-con., vibrolithic concrete, sheet asphalt on concrete or bitulithic on concrete, 21,000 lin.ft. concrete curbing, 13,000 cu.yd. excav., on Forest Ave., Elizabeth, Smith, Stafford, Mill, Division, Eastman, Appleton, Cold Storage, North and Main Sts. J. Donohue Eng. Co., North 8th St., Sheboygan, engrs.

Ia., Nevada—Feb. 6, by City Clerk, paving, sewers, etc. 32 blocks, 40,300 sq.yd. concrete, 21,600 lin.ft. integral curb, 33,650 sq.yd. asphaltic concrete, 21,600 lin.ft. curb and gutter, 4,330 lin. ft. 8-in. and 16-in. storm drain, 910 lin.ft. 8-in. and 12-in. sewers, 26 manholes, 15 sanitary flush tanks, 52 inlet castings, etc. J. G. Dean, city engr.

Ark., Little Rock—Taking bids improving West 10th St. Dist. 353, 21,000 sq.yd. asphalt resurfacing on old concrete and brick base, 1,500 sq.yd. concrete base renewal, 2,100 tons binder, 1,000 ft. concrete curb, etc. $43,000. Ford & McCrea, Gazette Bldg., engrs.

Wyoming—Feb. 4, by State Hy. Comrs., Cheyenne, improving Cody-Yellowstone Park Rd., Federal Aid Project 12%, 46,000 cu.yd. earth and 5,000 cu.yd. rock excav. State furnishes pipe. $190,000. R. L. Silver, Basin, engr.

Tex., Alpine—Feb. 15, by M. S. Burke, judge Brewster Co., grading and gravel surfacing 15.15 mi. State Highway 3, Federal Aid Project 378-C, 18 ft. $86,879. A. L. White, co. engr.

Tex., Ballinger—Runnels Co. taking bids grading and bridging 3.36 mi. State Highway 30, 16 ft., Federal Aid Project 410. $56,000. J. E. Pirie, Ballinger, engr.

Tex., Dallas—Feb. 11, by Comrs. Dallas Co. surfacing, etc., Belt Line 1 and North end of Denton Rd. in Dist. 1. $25,000. Nagle Witt & Rollins, Court House, co. engrs.

Tex., Dallas—See "Contracts Awarded."

Tex., Dallas—Feb. 11, by City Com. paving 225,000 sq.yd. Lamar, Poydras, Dundee, Wycliff, Hereshell, McKinney, Bowser, Gertrude, Flora, Gilbert, Hawthorne, Hartford, Bryan, Oak, Allen, Goodwin, Annex, Prospect, East Side, Tremont, McMillan, Garland, Llano, Preston, Lewis, Greenville, Washington, Pearl, Prairie, Holly, Terry, Forney, Grand, Pennsylvania, Park, Henry, Wendelkin, Canton, Dawson, Yarmouth, Ballard, Elsbeth, Kings Highway, Winnetka, Woodlawn, Neches, Page and 7th Sts., various types of bituminous, Willite asphalt concrete, bitulithic (Warrenite), rock asphalt, 2 in. on 5 and 6 in. base. Dundee St probably brick on concrete. $1,000,000. E. A. Kingsley, city engr.

Tex., Eastland—Taking new bids improving Moss St., incl. 8,613 yd. paving 3 in. brick on macadam or concrete, 4,709 ft. curb and gutter, etc., $30,000. Former bid rejected. C. L. Garrett, Eastland, engr. Noted Dec. 6.

Tex., Houston — City Com. taking bids graveling 30 ft. and grading 100 ft. White Oak Bayou Dr. from Houston Ave. to Stude Park. $50,000. J. C. McVea, city engr.

Tex., Houston—Feb. 11, by Harris Co., repairs to Harrison Blvd., asphaltic concrete, also bridge on Richmond Rd., to exceed $25,000. Howe & Wise, co. engrs.

Tex., Houston—Feb. 11, by Comrs. Harris Co., paving various streets, 50,000 gal. asphalt. Howe & Wise, co. engrs.

Oklahoma—Feb. 6, by W. C. Burnham, state engr., Oklahoma City, grading and paving 1.2992 mi. Federal Aid Project 115, Sect. A, Cleveland Co., 2,866 cu.yd. excav., 2,969 cu.yd. overhaul, 11,550 cu.yd. borrow excav., 13,720 sq.yd. Bates type concrete pavement.

Colorado—Feb. 7, by State Hy. Dept., Denver, concrete paving 1.799 mi. Federal Aid Project 256 B, Atwood-Merino Rd., Logan Co., 18 ft., alternate bids for bituminous or concrete. $57,094. L. D. Blauvelt, state highway engr.

Colorado — Feb. 9, by State Hy. Dept., Denver, gravel surfacing 6.508 mi. Federal Aid Project 253-A, Steamboat Springs-Hayden Rd., Routt Co., 18 ft. $136,319. L. D. Blauvelt, state highway engr.

Wash., Ellensburg—Feb. 8, by Comrs. Kittitas Co., grading and graveling 2.1 mi. Permanent Highway 11, and constructing two 50-ft. steel pony truss bridges thereon. W. T. Bowman, Ellensburg, engr.

Calif., Bakersfield—Feb. 11, by Supervs. Kern Co., improving portions Rd. 283, 18 ft. wide, 4 in. bituminous base, 2 in. Willite surface. To exceed $25,000. J. R. Thornton, surv.

Calif., Los Angeles—Feb. 11, by Bd. Pub. Wks., improving Ave. 52 between Coringa St. and point 1,160 ft. north, incl. 29,898 sq.ft. oil and roll, 2,300 lin.ft. light curb, 11,500 sq.ft. walks, 4,600 sq.ft. gutter, etc.; Larchmont Blvd. between Melrose and Beverly Blvd., 76,664 sq.ft. Warrenite bituminous pavement; Peralta Ave. between Fletcher and Tyburn Sts., 74,163 sq. ft. oil and roll, 5,348 ft. curb, 27,102 sq.ft. walks, 10,364 sq.ft. gutter; Raymond Ave. between 59th Pl. and 64th St., 286,357 sq.ft. oil and roll, 2,429 sq.ft. walks, 7,632 sq.ft. gutter; Wall St. between Santa Barbara and 42nd Sts., 36,206 sq.ft. asphalt pavement, 3,675 sq.ft. gutter, etc.

Calif., San Bernardino — Supervs. San Bernardino Co. receiving new bids improving 5 mi. Big Bear Blvd., Rd. Impvt. Dist. 25, 40 ft. wide, 8 in. macadam pavement, corrugated iron culverts. E. T. Ham, co. surv. Noted June 7.

Streets and Roads (Continued)

BIDS RECEIVED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Jan. 28, sheet asphalt paving (1) Hallett St. (2) Hayes Ave. (3) 41st St. (4) 103rd Ave., grading, curbing, laying sidewalks, etc., on (5) 41st St. (6) 103rd (Kimball) Ave., from Cleveland Trinidad Paving Co., Flushing, (1) $29,575; W. P. McDonald Constr. Co., 17 West 42nd St., New York, (2) $81,270; Borough Asphalt Co., 1301 Metropolitan Ave., Brooklyn, (3) $24,736 (4) $22,958; R. A. Hess, Inc., 14 Queens St., Astoria, (5) $7,527; H. J. Mullin Contg. Co., Jamaica Ave. and 144th St., Jamaica, (6) $7,904. Noted Jan. 24.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., Jan. 28, granite block repaving (1) Lexington Ave. (2) 1st Ave. (3) 2nd Ave. (4) Nassau Lane (5) Washington St., grading, regrading, curbing, recurbing, flagging, reflagging, etc. (6) easterly portion of Riverside Dr. from 500 ft. north of West 191st St. to point 800 ft. north of West 181st St., from J. Meehan & Son, 74 Cortlandt St., (1) $45,976 (4) $11,860; Casper Helbock, Inc., Harlem River and 150th St., (2) $39,526; Burnside Contg. Co., 270 Burnside Ave. (3) $72,323; P. J. Kearns Contg. Co., 2306 Creston Ave., (5) $42,509; M. Del Balso, 660 East 221st St., (6) $27,666. Noted Jan. 24.

New Jersey—State Hy. Dept., Trenton, Jan. 28, concrete paving 62,452 sq.yd. Route 5, Sect. 11, Delaware-Belvidere Rd., Warren Co., from Salmon Bros., Main St., Netcong, 90.1% engrs. est. $392,252. Noted Jan. 10.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, Jan. 22, 130,000 sq.yd. rein.-con. paving at Training School for Feeble Minded, from J. E. Perkinson, 3239 Carter Ave., $39,355. Engrs. est. $43,000. Noted Dec. 27.

Tex., Houston — Harris Co. grading, gravel, shell and crushed rock base with bituminous topping on 1.56 mi. State Highway 19, Federal Aid Project 393, incl., 163 cu.yd. concrete, 12,064 cu.yd. roadway and 7,314 cu.yd. borrow excav., 11,050 110,507 gal. asphaltic oil, 337 cu.yd. trap rock, 190 cu.yd. limestone, 12,217 lb. reinforcing, 3,539 cu.yd. gravel; grading, base and drainage structures from B. S. Davidson, Box 1097, $27,504; bituminous top, from Haden & Austin, 727 Kress Bldg., $6,248.

Calif., El Monte — Improving various streets, 6,910 sq.yd. of 6 in. and 18,323 sq. yd. of 5 in. concrete, 9,967 lin.ft. Class A and 3,302 lin.ft. Class B cement concrete curb, 46,558 sq.ft. walks, 1,442 lin.ft. 10 in. and 7,888 lin.ft. 6 in. sewer pipe, etc., from Hall-Johnson Co., Lynwood (Compton P. O.), $79,067.

Calif., Oakland—Improving 5th St. from Jefferson to Cypress St., (1) 202,627 sq.ft. grading (2) 707 ft. concrete curb with steel guard (3) 6,299 ft. concrete curb without guard (4) 7,873 sq.ft. concrete gutter (5) 194,754 sq.ft. 6 in. concrete base, 2 in. Warrenite surface (6) 866 lin.ft. of 10 in. pipe conduit, from Hutchinson Co., Hutchinson Bldg., (1) $0.045 (2) $0.99 (3) $0.74 (4) $0.32 (5) $0.30 (6) $2.00; Bates & Borland, Bank of Savings Bldg., (1) $0.05 (2) $1 (3) $0.75 (4) $0.30 (5) $0.30 (6) $3; Warren Constr. Co., Bacon Bldg., (1) $0.05 (2) $1.30 (3) $0.75 (4) $0.32 (5) $0.305 (6) $2.50; Oakland Paving Co., 5000 Bway., (1) $0.02 (2) $1 (3) $0.75 (4) $0.28 (5) $0.30 (6) $1.50. Noted Jan. 24.

Calif., Oakland—Improving 12th St. from Kirkham to Wood Sts., from Bates & Borland, Bank of Savings Bldg., 92,176 sq.ft. grading $0.05, 452 ft. curb with steel guard $1, 4,362 ft. concrete curb without guard $0.75, 96,855 sq.ft. concrete base, 2 in. Warrenite surface $0.30, 5,321 sq.ft. concrete gutter $0.30, etc. Noted Jan. 17.

Calif., Santa Rosa—Sonoma Co. improving Mendocino-Jenner Hy., incl. 240,000 cu.yd. excav., 5,000 lin.ft. of 12 in., 3,500 lin.ft. 15 in., 1,200 lin.ft. 18 in. and 900 lin. ft. 24 in. corrugated iron pipe (county will furnish pipe), etc. from F. H. Richardson, Stewarts Point, $160,265. Noted Jan. 3.

CONTRACTS AWARDED

Maryland—State Rds. Comn., Baltimore, paving 1.61 mi. Park Heights Ave., 44,500 sq.yd. concrete base, 44,000 sq.yd. bituminous macadam, 15,200 cu.yd. earth excav., 17,400 lin.ft. curbing, Contr. Bc-41, to P. Flanigan & Sons, Harford Rd. and 25th St., $160,711. Noted Jan. 24.

N. C., Asheville—Grading new thoroughfare between South Market St. and Coxe Ave., to Howerton Eng. Co., Asheville, $82,651. Noted Dec. 6.

Ala., Eufaula — City paving 5 blocks Broad St., asphalt on concrete, to Slattery & Henry, Mills Bldg., Greenville, S. C., $61,000; concrete paving 15 blocks 3 ft. sidewalks Broad and other streets, to Barlow & Gordy, Columbus, Ga., $25,000.

Ala., Florala — Grading and bitulithic paving 7 blocks, to Dietz Constr. Co., 900 North 13th St., Birmingham, $63,793.

Ala., Talladega—Paving 6 blocks South and East Sts., 27,000 yd. 2 in. asphaltic concrete on 5 in. concrete, to Southern Roads Co., Amer. Trust Bldg., Birmingham, $55,548. Noted Jan. 10.

Wis., Genoa Junction—Paving, etc., various streets, to R. R. Birdsall Constr. Co., 1025 12th St., Racine, 8,531 sq.yd. concrete pavement $2.72, 7,757 lin.ft. concrete curb and gutter $1.15. Noted Jan. 10.

Ia., Shenandoah—Paving, curbing, etc. city streets, 35,800 lin.ft. curbing and guttering, to Riley Nelson, Council Bluffs, $0.80 per lin.ft.; 51,000 sq.yd. 6 in. vibrolithic pavement to J. B. Corey, Shenandoah, $2.47 per sq.yd., resurfacing 23,600 sq.yd. old brick, to J. S. McLaughlin & Son, Mankato, Minn., $1.15 per sq.yd.

Ia., Shenandoah — Paving, curbing and guttering various streets, 51,000 sq.yd. paving, 27,400 lin.ft. concrete curbing and guttering, to J. F. McLaughlin & Sons, Red Oak, $159,465; 23,600 sq.yd. brick block relaid, to F. B. Corey, Shenandoah, $27,140. Noted Dec. 13.

Kan., Ft. Scott—Paving 19 blocks, brick on macadam with asphalt filler, to H. Tidd, Hutchinson, $52,129.

Mo., Kansas City—See "Railways under Missouri."

Tex., Cameron—Milam Co., grading and bridging 11.38 mi. Federal Aid Project 43, State Highway 43, 18 ft., to J. E. Thomas, Rogers, $73,822. Noted Jan. 24.

Tex., Dallas—Paving Jefferson Ave. from Polk to McDonough Sts., to Fuller Constr. Co., Southland Life Bldg., Dallas, $58,348. Bids on 2 sections of Young St. will be readvertised at once, due to error in bids. Noted Jan. 17.

Tex., Denton—Denton Co., grading and gravel surfacing 5.59 mi. Denton East Highway, from Little Elm to Collin Co., to Purvis & Lowery, Waggoner Bldg., Ft. Worth, $22,629, concrete structures on same, to Denton Constr. Co., Denton, $14,947. Gravel to be furnished by county $3,000. Noted Jan. 3.

Tex., Franklin—Robertson Co. grading and gravel surfacing 9.74 mi. State Highway 43 A, 16 ft., to Thomas & Ratcliff, Rogers, $36,536. County to furnish 18,822 cu.yd. gravel $26,500. Engrs. est. $77,261. Noted Jan. 24.

Tex., San Angelo—Tom Green Co. grading, gravel surfacing and asphalt topping 9.73 mi. State Highway 9, Federal Aid Project 412, 1,135 cu.yd. concrete, 51,242 cu.yd. roadway, 12,798 cu.yd. borrow, 1,230 cu.yd. loose and 1,032 cu.yd. solid rock excav., 63,965 gal. asphalt, 2,920 cu.yd. cover material, 108,128 lb. reinforcing, 30,242 cu.yd. gravel, to Metcalfe & Thompson, San Angelo, $90,500. Engrs. est. $106,500.

Tex., Wichita Falls—Wichita Co., grading and gravel surfacing 3 mi. Iowa Park Jonesdale Rd., to Graham Constr. Co., Iowa Park, $26,301; Burnett-Clara Rd., to J. E. Ward Co., Linz Bldg., Dallas, $41,867; Iowa Park-Clara Rd., to G. G. Burgess, Iowa Park, $17,922.

Nevada—State Hy. Comn., Carson City, improving 17.59 mi. from Mormon Mesa to Nevada-Arizona state line, Route 6, Sect. H., Clark Co., 222,000 cu.yd excav., 11,200 cu.yd. loading and screening, 29,400 yd. mi. hauling and 11,200 cu.yd. spreading gravel, 190 cu.yd. Class A and 220 cu.yd. Class B concrete, etc., to Dodge Bros. & Dudley, Fallon, $217,536. Noted Jan. 24.

Wash., Seattle—Bd. Pub. Wks., grading and concrete walks 26th Ave. N. E., to Paduano & Chrisman, 1546 12th St. S., 6,700 lin.ft. concrete sidewalk $1.35, 18,500 cu.yd. earth excav. $0.42 per cu.yd., total $30,593. Engrs. est. $33,585. Noted Jan. 17.

Calif., Auburn—Grading and paving Lincoln Way, Nevada and Sacramento Sts., to J. A. Costello, Jr., 1083 Shotwell St., San Francisco, $70,500. Noted Jan. 17.

Calif., Hanford — Improving various streets, regrading, repaving with 2 in. Warrenite bituminous surface, concrete and corrugated iron culverts, to California Constr. Co., 58 2nd St., San Francisco, $48,868.

Calif., Los Angeles—Improving Lucretia Ave. between Avalon and Echo Sts., to G. J. Bock, 1250 South Gramercy Pl., grading (total) $13,650, 639 sq.ft. concrete pavement $0.35, 31,818 sq.ft. oil and roll $0.07, 23,706 sq.ft. walks $0.23, 5,060 sq. ft. gutters $0.35.

Calif., San Diego—Common Council improving Front and Dickinson Sts., to G. R. Daley, 4430 Boundary St., $25,358. Noted Jan. 17.

Industrial Works

PROPOSED WORK

Vt., Wells River—Plant—Adams Paper Co. plans 2 story, brick and steel addition, $60,000. Private plans.

Mass., Brighton (Boston P. O.)—Service, etc.—International Harvester Co., 608 South Michigan Ave., Chicago, plans 2, 3 and 4 story, brick and concrete, North Beacon St., here. $50,000. Private plans.

Mass., Marlboro—Garage—H. H. Hazelton, 41 Chatham St., Worcester, having plans prepared by J. Rice, 306 Main St., Worcester, 1 story, 60 x 192 ft., brick and steel, plain foundation, Main St., here. $40,000.

Mass., Worcester—Factory—Royal Bed Spring Co., 7 Summer St., plans 3 story, brick and timber, Summer St. $40,000. Engineer and architect not selected.

Conn., Griswold—Power Plant—Eastern Connecticut Power Co., 362 Main St., Norwich, plans 1 story, brick and steel, here. $40,000. Private plans.

N. Y., Bowmansville—Plans—Brown Oil Co., Box 12, plans rein.-con., brick and steel plant. To exceed $50,000.

N. Y., Binghamton — Plant — Titchener Iron Wks., Frederick St., soon lets contract 1 story, Griswald St. $50,000. Private plans.

N. Y., Brooklyn—Warehouse—St. Mark Holding Co., c/o C. Meyers, archt., 31 Union Sq., New York City, having plans prepared 6 story, 100 x 100 ft., rein.-con. and brick, plain foundation, Eastern Parkway and Bedford Ave., here. $500,000. C. J. Jeppesen, 49 West 45th St., New York City, engr.

N. Y., New York—Garage—J. M. Felson, archt. and engr., 1133 Bway., preparing plans 2 story, rein.-con., brick and steel, plain foundation, St. Nicholas Ave. $65,000. Owner's name withheld.

N. J., Trenton—Plant, etc.—T. Maddocks Sons Co., Ewing and Perry Sts., plans 1 story, 450 x 1,600 ft. plant, 40 x 150 ft. power plant, and 2 story, 50 x 125 ft. office building, steel and concrete, on 150 acre site north of Trenton shops. $1,000,000. W. E. S. Dyer, Land Title Bldg., Phila., mill engr. and archt.

Pa., Latrobe — Plant — Anchor Drawn Steel Co. having plans prepared 1 story, 80 x 290 ft. and 50 x 120 ft. steel plant. Private plans.

Md., Baltimore — Storage — Monumental Storage & Carpet Cleaning Co., 1110 Park Ave., plans storage warehouse in 2 units each 80 x 150 ft., 3 and 6 story, brick, Payson St. and Windsor Ave. $200,000. Engineer and architect not selected.

W. Va, Beckley—Shop—Daniel Boone Mining Machine Co. preparing plans 3 story and basement, 60 x 80 ft. $50,000. Private plans.

W. Va., Martinsburg — Plant — Eastern Sewer Pipe and Brick Co., Dean Bldg., plans power plant at factory. $50,000.

W. Va., Weston—Plant—Danser Mfg. & Supply Co. plans addition. $50,000.

N. C., Rocky Mount—Bd. Aldermen plans to build new light and power plant. Will issue $350,000 bonds to cover cost.

Fla., Jacksonville—Plant and Warehouse—Cheek-Neal Coffee Co., Cummins Sta., Nashville, Tenn., plans 5 story, 100 x 150 ft. concrete and steel, here. $150,000. L. T. Cheek, vice-pres.

Fla., Sanford — Electric Light and Gas Plants—City voted $310,000 bonds for electric light plant and $160,000 for gas plant. W. B. Williams, city engr. Noted Dec. 27 under "Waterworks."

Tenn., Cleveland—Mill—Cleveland Woolen Mills Co. having plans prepared by W. H. Sears, James Bldg., Chattanooga, several additions to plant. $70,000.

Tenn., Dickson — Factory — Dickson Development Co. soon takes bids 2 story and basement, 60 x 140 ft., brick. $40,000. American Cigar Co., lessee.

Tenn., Knoxville—Plant—Burdett Oxygen Co., 410 Market St., Chattanooga, plans plant, incl. power house, here. $40,000.

Industrial Works (Continued)

Ky., Louisville — Garage — Consolidated Realty Co., 229 South 5th St., plans 1 story brick, 1036 South 8th St. $40,000.

O., Cleveland—Dry Kilns—Baker R. & L. Co., 2180 West 25th St., plans 1 story, brick, West 80th St. $100,000. E. J. Stahl, vice pres. Private plans.

O., Cleveland — Factory — Cleveland Heater Co., 1900 West 112th St., having plans prepared by G. S. Rider & Co., Century Bldg., 1 story, 100 x 250 ft., brick and steel addition. $200,000.

O., Cleveland—Factory—J. Roemer Heating Co., 1808 East 22nd St., having preliminary plans prepared by W. S. Ferguson Co., Euclid Ave., 1 story, 80 x 132 ft., brick addition. $40,000.

O., Galion—Foundry—Galion Iron & Mfg. Co. had revised plans prepared 1 story, 50 x 160 ft. addition. $65,000. Althous & Jones, Market Bldg., Mansfield, engrs. Noted Oct. 4.

O., Sharonville—Roundhouse—Cleveland, Cincinnati, Chicago & St. Louis R.R., 511 West 3rd St., Cincinnati, plans brick roundhouse addition, here. $100,000, mechanical equipment $65,000. C. A. Paquette, ch. engr.

Ind., LaPorte — Garage — Motor Oil Garage plans garage and service station to replace one recently destroyed by fire. $60,000. Engineer and architect not selected.

Ind., Mishawaka—Factory—Mishawaka Monument Wks., East 1st St., plans 1 story, 30 x 100 ft., concrete, brick and steel, Cedar St. $50,000. D. A. Van De Walle, proprietor. Engineer and architect not announced.

Ind., Muncie—Factory—Union Equipment Outfit Co. plans factory, to exceed $50,000. Engineer and architect not selected.

Ill., Abingdon—Factory—Amer. Sanitary Mfg. Co. having preliminary plans prepared by Lockwood, Greene & Co., 38 South Dearborn St., Chicago, 1 story, 90 x 200 ft. addition to plant.

Ill., Mt. Vernon—Mill and Power Plant—Mt. Vernon Car Mfg. Co. plans wood mill and power plant. $150,000. Awarded contract to McClintic-Marshall Co., Oliver Bldg., Pittsburgh, Pa., for 700 tons structural steel, about $50,000.

Ill., Peoria — Factory — Cutler Proctor Stove Co., 201 North Water St., plans 4 story, 150 x 200 ft., to replace one recently destroyed by fire. $150,000.

Ill., Plymouth — F. M. Connelly, 259 North Kellogg, Galesburg, plans stone crushing works, incl. power house, here. $100,000.

Wis., Evansville—Mill—Evansville Grain & Feed Co. plans to rebuild 2 story, brick and timber, plain foundation, recently destroyed by fire. $40,000. Engineer and architect not selected.

Wis., Milwaukee—Factory—S. F. Kadow, archt., 208 Howell Ave., preparing plans 1 story, 120 x 182 ft., brick and timber, plain foundation. $6,000. Owners name withheld.

Wis., Ojibwa — Factory — Co-operative Cheese Factory, c/o G. Squires and A. Kraft, plans 2 story, 40 x 64 ft., brick and tile, plain foundation. $40,000. Engineer and architect not selected.

Ia., Dubuque—Warehouse—Carr, Ryder & Adams Co., 10th and Adams Sts., completed plans 5 story, L-shaped, 120 x 200 ft. and 30 x 100 ft., rein.-con. and brick, 10th and Jackson Sts. $150,000. Private plans.

Kan., Eureka—Garage—Leader Garage & Motor Co. plans rein.-con. and brick. $100,000.

Missouri — Round Houses — See "Railways."

Tex., Beaumont — Warehouse — C. L. Berley, c/o Wilson Hardware Co., having plans prepared brick and tile. $50,000. Engineer and architect not announced.

Tex., Cross Plains—Oil Refinery—Crabb, McNeal & Bryant having plans prepared oil refinery. First unit $50,000. Larger plant later. Engineer and architect not announced.

Tex., Dennison—Shop—Missouri Kansas & Texas R.R., Railway Exch., St. Louis, Mo., plans 1 story, freight car repair shop, brick and concrete, with storage tracks. $180,000. Private plans.

Tex., Ft. Worth—Oil Refinery—Magnolia Petroleum Co., 405 Commerce St., plans additions to refinery at Hodge Sta. $500,000. Private plans.

Tex., Ft. Worth — Warehouse — Southwestern Storage Co., Dan Waggoner Bldg., having plans prepared by B. C. Hill, Interurban Bldg., Dallas, 4 story, 50 x 96 ft., concrete. $135,000.

Tex., Frost—Ice Plant—Frost Oil Mill Co. had plans prepared by J. C. Kett, engr., Frost, 50 x 60 ft., brick, 20 ton daily capacity. $40,000.

Tex., Rotan—Gypsum Plant—Universal Gypsum Co., 111 West Washington Blvd., Chicago, preparing plans 3 story plant, brick and rein.-con., 200 tons daily, here. $250,000. Private plans.

Tex., Snyder — Ice and Power Plant — Yoder & Anderson plan to rebuild ice and power plant, brick and concrete. $50,000.

Utah, Halliday — Factory — H. Nielson plans 1 story, 22,000 sq.ft. space. $50,000. P. C. Nielson, McIntyre Bldg., Salt Lake City, archt.

Wash., Everett — Power Plant — Delta Water & Electric Co., Central Bldg., Seattle, plans hydro-electric power plant on Pilchuck Creek, to develop 550 hp. Work includes concrete arch dam, 70 ft. high, 317 ft. long.

Calif., Fullerton—Packing Plant—Northern Orange Co. Citrus Exch. had plans prepared 1 story, 100 x 140 ft., brick and steel or hollow tile. Private plans.

Calif., Los Angeles—Warehouse—P. G. Hoffman Co., Inc., 1250 South Figueroa St., having plans prepared by F. D. Chase, Inc., archts. and engrs., Title Insurance Bldg., 2 story, rein.-con. $100,000.

Calif., Roseville—Car Repair and Car Building Shops—Pacific Fruit Express Co., 65 Market St., San Francisco, negotiating for purchase of 250-acre site, here, on which to erect car repair and car building shops.

Calif., San Francisco—Packing Plant—Frye & Co., 9th and Walker Sts., Seattle, Wash., plans packing plant, Townsend St. near 4th St., here. $100,000. Engineer or architect not announced.

Calif., Ventura—Factory—Ventura Footwear Co. had plans prepared 1 and 2 story, 50 x 140 ft., steel and concrete, first unit of plant. Private plans.

BIDS DESIRED

Pa., Ambridge — Factory — Natl. Metal Moulding Co. will build 1 story, 128 x 400 ft. steel and corrugated iron factory. Owner builds and awards separate contracts.

Pa., Darby—Plant—Feb. 5, by C. E. Wunder, archt., 1520 Locust St., Phila., 2 story, 96 x 144 ft. brick and steel plant, plain foundation, 9th and Summit Sts. here, for Supplee Wills Jones Milk Co., 26th and Jefferson Sts., Phila. $100,000.

Pa., Phila.—Plant—Jan. 31, by Ballinger & Co., archts., 12th and Chestnut Sts., 1 story and basement, 600 x 740 ft. rein.-con., brick and steel, plain foundation, Wissahickon and Abbottsford Sts., for Atwater Kent Mfg. Co. $800,000.

N. C., Mebane—Factory—White Furniture Co. taking bids, 100 x 200 ft. machine room and 80 x 240 ft. finishing room building, both 3 story, brick, steel and concrete. W. E. White, pres.

Tenn., Knoxville—Warehouse—Feb. 3, by R. F. Graf & Son, archts. Arnstein Bldg., 6 story, basement and sub-basement, rein.-con., brick and steel, plain foundation, Jackson Ave., for C. M. McClung Co., West Jackson Ave. $100,000. Noted Jan. 24.

Ky., Louisville—Factory—Standard Sanitary Mfg. Co., 6th and A Sts., receiving bids and opens same about Feb. 27, 4 story, 160 x 450 ft., rein.-con., 7th St. $750,000. Joseph & Joseph, Francis Bldg., archts. Noted Jan. 10.

Mich., Detroit—Garage—A. Des Rosiers, engr., 620 McKerchey Bldg., taking bids 1 story, 60 x 115 ft. brick and steel garage and repair shop, plain foundation, High St., for T. and R. Collins Trucking Co., 2539 Woodward Ave. $40,000.

Ill., Chicago — Auto Service — M. O. Nathan, archt., 123 West Madison St., taking bids 1 story, 119 x 150 ft., rein.-con., steel and brick, 4635 North Crawford St., for B. Bortz. $50,000.

Ill., Chicago—Garage—M. O. Nathan, archt., 123 West Madison St., taking bids 1 story, 72 x 100 ft., rein.-con., steel and brick, 54-62 East 31st St., for E. Hudson, c/o architect. $40,000.

Ill., Chicago—Garage—M. O. Nathan, archt., 123 West Madison St., taking bids 1 story, 100 x 175 ft., rein.-con., steel and brick, 3135 West Harrison St., for A. Randall, 3135 West Harrison St. $50,000.

Wis., Green Bay—Warehouse—Feb. 11, by Foeller, Schober & Stephenson, archts., Nicollet Bldg., 6 story and basement, 44 x 155 ft., addition to warehouse, brick and concrete, plain and wood pile foundation, Washington St., for Joannes Bros. Co., 118 South Washington St.; excavation and piling let to Greiling Bros. Co., East Walnut St. Total $200,000.

Wis., Milwaukee—Foundry—Pawling & Harnischfeger Co., 38th and Natl. Aves., taking bids 1 story, 182 x 400 ft., brick and steel, plain foundation, Natl. Ave. Bidders must submit own designs and include in bid all equipment for building.

Mo., St. Louis — Factory — Hellmuth & Hellmuth, archts., DeMenil Bldg., taking bids and open same about Feb. 1, 4 story, 60 x 100 ft., Theresa Ave., for Steelcote Mfg. Co., 700 North Main St. $50,000.

Calif., Los Angeles — Ice Storage — E. Borgmeyer, archt., California Bldg., receiving bids 5 story, 100 x 148 ft., rein.-con., Main and Maple Sts., for Jefferson Ice Co., 157 East Jefferson St. $85,000. Noted Jan. 24.

BIDS RECEIVED

Pa., Zellonople—Plant—Iron City Sanitary Mfg. Co., 1 story, 90 x 360 ft., brick and steel plant, from Pittsburgh Bridge & Iron Wks., Rochester, $150,000. This corrects report in Jan. 24 issue.

Calif., Los Angeles—Warehouse—Brunswig Drug Co., 501 North Main St., 5 story and basement, 50 x 150 ft., rein.-con., New High St., from C. A. Schweissinger, Jr., 625 Locust St., $120,000.

CONTRACTS AWARDED

Mass., Fall River—Boiler House—Durfee Mills, Plymouth Ave., 1 story, brick, concrete and steel addition, plain foundation, Plymouth Ave., to J. Crowe Co., Inc., 486 2nd St. Archts. est. $42,000.

Mass., Somerset — Generating Plant — Montaup Electric Co., 68 x 195 ft. turbine building, 135 x 165 ft. boiler room, 28 x 99 ft. electric bay, 25 x 56 ft. office building, all brick and steel, to Stone & Webster, Inc., 147 Milk St., Boston, $5,750,000, with equipment. Contractor in market for 100 ton overhead crane. Noted Dec. 27.

N. Y., Long Island City—Factory—Wagner Pastry Co., 14th St., factory addition, rein.-con. and brick, plain foundation, to Cunningham & Foley, 14 East 45th St., New York City. Archts. est. $60,000.

N. Y., New York—Garage—L. A. and M. Sheinert, c/o L. Sheinert, archt. and engr., 194 Bowery, will build 2 story, 150 x 200 ft., rein.-con., brick and steel, plain foundation, Delancey St., by day labor. $150,000.

N. Y., Schenectady — Garage — C. B. Christensen, (owner and contractor) 1628 Union St., will build 3 story, 40 x 120 ft. and 1 story, 40 x 60 ft. garage and storehouse, brick and steel, plain foundation. 214 Clinton St. $110,000.

N. J., Camden—Factory—B. Small, c/o J. S. Fuller, archt., 5438 Locust St., Phila., 1 story, 150 x 325 ft., brick and steel, plain foundation, 6th and Atlantic Sts., here, to S. Kaplan, 243 South 62nd St., Phila.

N. J., Camden — Machine Shop — E. F. McClintock, master carpenter, Pennsylvania Office, 1 story, 86 x 150 ft., brick and steel, plain foundation, Clinton St., here, to Armstrong & Latta, 1926 Sansom St., Phila., for Pennsylvania R.R., Broad St. Sta., Phila. Archts. est. $72,000. Noted Dec. 27.

N. J., Newark—Dairy—Newark Milk & Cream Co., 292 Broad St., rein.-con. and brick, plain foundation, Bridge St., to F. Kilgus, Inc., 13 South 6th St. Archts. est. $300,000.

Pa., Phila.—Plant—G. A. Bisler, 546 North 6th St., 4 story and basement, 138 x 143 ft. rein.-con., brick and steel plant, plain foundation, 5th and Brown Sts., to W. P. Steele & Son, 219 North Broad St.

N. C., Burlington—Burlington Mills Inc., mill building, warehouses and 70 cottages, to Gaston Constr. Co., Gastonia, main building $97,500, cottages $86,500. Noted Dec. 6.

N. C., Rhodhiss—Plant—Southern Power Co., 432 Church St., Charlotte, hydro electric plant along Catawba River, here, to develop 40,000 hp., to Rhinehart & Dennis, Charlottesville, Va. Noted Jan. 24.

Industrial Works (Continued)

Fla., Jacksonville—Assembly Plant—Ford Motor Co., Highland Park (Detroit P. O.), Mich., steel work for 1 story, 200 x 500 ft. assembly plant, here, to Virginia Bridge & Iron Co., Exch. Bldg., Memphis, Tenn. Noted Jan. 24.

Fla., Sanford — Factory — Florida McCracken Concrete Pipe Co., Sanford, subsidiary of McCracken Mfg. Co., Sioux City, Ia., will build factory, by day labor. $70,000. Noted Jan. 17.

Fla., Tampa — Factory — Florida McCracken Concrete Pipe Co., Sanford, subsidiary of McCracken Mfg. Co., Sioux City, Ia., will build factory by day labor, here. $70,000.

Tenn., Etowah — Shop — Louisville & Nashville R.R. Co., 10th St. and Bway., 1 story, 110 x 170 ft. steel and concrete machine shop, to Platoff & Bush, 122 West Liberty St., Louisville, Ky. Archts. est. $100,000.

Tenn., Memphis—Assembly Plant—Ford Motor Co., Highland Park, Detroit, Mich., 1 to 2 story, 300 x 800 ft., rein.-con., brick and steel, Riverside Blvd. and Parkway here, to Blair Constr. Co., Randolph Bldg.; steel work to Virginia Bridge & Iron Co., Exch. Bldg. Archts. est. $1,250,000. Noted Jan. 17.

Tenn., Nashville — Plans — Tennessee Enameling Co., Charl Park, 1 story, 95 x 180 ft., concrete and steel, 41st St. and Park Ave., to G. B. Howard & Co., 4th Ave. N. Archts. est. $40,000. Noted Jan. 3.

Ky., Louisville—Assembly Plant—Ford Motor Co., Highland Park, (Detroit P. O.), Mich., steel work for $1,000,000 assembly plant, here, to Virginia Bridge & Iron Co., Exch. Bldg., Memphis, Tenn. Noted Jan. 10.

O., Cleveland—Factory—Foster Bolt & Nut Mfg. Co., 3556 East 72nd St., 1 story and basement, 36 x 228 ft., concrete addition, to McMillan Co., 1918 East 66th St. Archts. est. $50,000.

O., Cleveland—Factory—Ohio Clay Co., 8829 Bway., will build 1 story, 46 x 396 ft., brick, steel and concrete, Warner Rd., by day labor. $50,000. Private plans.

O., Cleveland — Foundry — Stotter Metal Co., Hanna Bldg., 1 story, 51 x 100 ft., brick and steel, 7700 Bessemer Ave., to A. Bloom, 10621 Garfield Ave. Archts. est. $40,000.

O., Cleveland—Garage—J. Kofron, 1823 East 55th St., 2 story and basement, 50 x 100 ft., brick and rein.-con., 7724 Lexington Ave., to Super-Built Constr. Co., Union Bldg. Archts. est. $50,000.

O., Cleveland—Garage—C. T. Tyler, 3127 East 80th St., 1 story, 40 x 136 ft., brick and steel, 3169 East 80th St., to Painton & Dayley, 3169 East 80th St. Archts. est. $50,000. Noted Jan. 24.

Ind., Evansville — Factory — Graham Truck Co., Stringtown Rd., 1 story, 180 x 240 ft. addition, brick, steel and tile, Stringtown Rd., to M. J. Hoffman Constr. Co., 403 Furniture Bldg. Archts. est. $100,000. Noted Nov. 1.

Ind., Evansville—Garage—A. L. Maxwell Co., 2nd and Vine Sts., 3 story, 50 x 150 ft., brick and steel addition, to Tri-State Constr. Co., 22 Merchants Bank Bldg., Evansville. Archts. est. $40,000.

Mich., Detroit—Plant—J. Gagnier Printing Co., 320 West Fort St., 3 story and basement, rein.-con. and brick plant, plain foundation, McDougall Ave., to H. F. Yatzek, 1102 Beaconsfield St. Archts. est. $75,000.

Ill., Lebanon—Oil Plant—Clarkson Oil Co., Nashville, will build 1 story, 20 x 30 ft., galvanized iron and concrete plant, one 15,000 gal. gasoline storage tank and one 12,000 gal. kerosene storage tank, here, by day labor. Private plans.

Mo., St. Louis—Auto Service—Mendenhahl Motor Co., 2315 Locust St., general contract 4 story and basement, 37 x 155 ft., brick, stone and rein.-con., to T. A. O'Keefe, 4450 Margaretta St. Archts. est. $100,000.

Tex., Dallas—Laundry—Leachman Steam Laundry & Dry Cleaning Wks., Harwood and Hickory Sts., 1 story, brick and concrete, to J. A. Thomas, 4610 Munger St., $15,000. Noted Jan. 10.

Tex., Houston—Industrial—City Packing Co., Canal St., will construct industrial building, brick, by day labor. $50,000.

Tex., Houston—Shops—Otis Elevator Co., 1617 McKinney St., machine shop, brick, to D. Hall, Carter Bldg., $40,000.

Calif., Oakland—Garage—G. T. Banks, 77 Sunnyside Dr., San Leandro (Branch of Oakland), 1 story, brick, East 14th St. and 74th Ave., here, to C. A. Gossett, 327 Davis St., San Leandro, $42,000.

Calif., San Pedro—Publishing Plant—San Pedro Daily News will build 3 story, 40 x 20 ft. by day labor.

Buildings

PROPOSED WORK

Mass., Worcester — Office — Lockwood-Green & Co., archts., 24 Federal St., Boston, soon takes bids superstructure, probably 10 story and basement, 100 x 125 ft., rein.-con. and steel, for Worcester Investment Co. $2,700,000. Contract for wood pile foundation to E. D. Ward & Co., 82 Foster St.

R. I., Cranston—School—School Dept., City Hall, plans 2 story and basement, brick and fireproof, 2nd Ward. $150,000. Engineer and architect not selected.

Conn., Bridgeport—School—St. Stephens Roman Catholic Church, 330 Spruce St., plans 3 story, brick and concrete, fireproof, Fairfield Ave. $160,000. Engineer and architect not selected.

Conn., Hartford — Apartment — S. I. Ward, 750 Main St., having plans prepared by Berenson & Moses, 30 Allyn St., 3 story and basement, brick and steel, Myrtle St. $150,000.

Conn., New Haven—Fraternity House—James Gamble Rogers, archt., 367 Lexington Ave., New York City, soon takes bids 3 story, brick, stone and steel, plain foundation, York St., here, for Delta Kappa Epilson Society, c/o architect. $150,000.

Conn., Stratford — School — St. James Roman Catholic Parish, 2110 Main St., plans 2 story and basement, brick and steel, Main St. $150,000. M. J. O'Connor, pastor. Engineer and architect not selected.

N. Y., Albany — Bank — Brotherhood of Locomotive Engineers, Engineers Bldg., Cleveland, O., having plans prepared brick and steel, here. $250,000. W. Stone, Cleveland, O., ch. engr.

N. Y., Albany—Medical—Fenster Bros. Fleishman, Inc., 6 South Pearl St., plans 4 story, 66 x 140 ft., brick and steel, plain foundation, Washington St. $165,000.

N. Y., New York—Apartment—Springsteen & Goldhammer, archts. and engrs., 32 Union Sq., preparing plans 6 story, brick, steel and stone, plain foundation, Macombs Rd. $225,000. Owner's name withheld.

N. Y., New York—Hotel—Durham Realty Corp., 511 5th Ave., having plans prepared by F. H. Dewey, archt. and engr., 175 5th Ave., altering 12 story, brick, steel and stone, plain foundation, 204 West 72nd St. $350,000.

N. Y., New York—Theatre and Apartment—C. F. Zittel, 300 Central Park W., and M. Hart, 51 Chambers St., having sketches made by G. Keister, archt. and engr., 56 West 45th St., 9 story, brick, steel and stone, 241 West 42nd St. $1,175,000.

N. J., Camden—Hotel—United Hotels Co., 25 West 45th St., New York City, plans hotel, here. $1,250,000. J. D. Stern, 344 Kings Highway, Camden, chn. com.

N. J., Newark—School—Bd. Educ. soon takes bids brick, steel and stone, plain foundation, Park St. $175,000. J. F. Cook, Union Bldg., archt. and engr.

N. J., Trenton—Office—See "Industrial Works."

Pa., Corry—Hotel—Corry Hotel Co. having sketches made by E. E. Bailey & Co., Oil City, 5 story and basement, 70 x 75 ft. rein.-con. and tile, North Center St. $250,000.

Pa., McKeesport—Office—Bell Telephone Co., 17th and Arch Sts., Phila., having plans prepared by J. T. Windrim, 1201 Chestnut St., Phila., 3 story and basement, 50 x 117 ft., 6th Ave., here. $150,000.

Pa., Meadville—Home—Meadville Lodge I.O.O.F. having plans prepared by W. Holmes Crosby, Masonic Bldg., Oil City, 2 story and basement, 140 x 220 ft., Allegheny St. $200,000.

Pa., New Castle — Church — St. Marys Catholic Church plans 100 x 180 ft. stone, North and Beaver Sts. $200,000. Engineer and architect not selected.

Pa., Phila. — Apartment — Stetler & Dysher, archts., 1015 Chestnut St., preparing plans 4 story and basement, 75 x 150 ft. brick and steel, plain foundation, 43rd and Spruce Sts. $225,000. Owner's name withheld.

Pa., Pittsburgh — Apartment — G. E. Evans, 197 Watsonia Blvd., having plans prepared by F. Smart, 3418 Delaware Ave., 3 story and basement, 145 x 150 ft., Ellsworth Ave. $750,000.

D. C., Wash.—Apartment—F. H. Smith Co. having plans prepared by J. H. de Sibour, Edmonds Bldg., 8 story, rein.-con. and limestone, Massachusetts Ave. and 21st St. $1,250,000.

D. C., Wash.—Church and Community—Hamline Methodist Episcopal Church, 1500 9th St., having plans prepared by C. W. Bolton & Son, Schaff Bldg., Phila., church and community house, 16th and Allison Sts. $300,000.

D. C., Wash.—Embassy—Italian Embassy, 1400 N H Ave., having plans prepared and takes bids about Feb. 13, embassy building, 16th and Fuller Sts. $300,000. Warren & Wetmore, 16 East 47th St., New York City, and J. W. Geddes, Connecticut Ave. and De Salles St., N. W., Wash., D. C., archts.

N. C., Asheville—Office—Mutual Security Co. plans 8 story and basement, 49 x 85 ft., steel, tile, limestone, brick and terra cotta, North Market St. $250,000. Engineer and architect not announced.

N. C., Charlotte—Theatre—R. D. Craver, 105 East Boulevard, plans 8 story and basement, West Trade St. $400,000.

N. C., Concord—Hotel—Concord Realty Co. plans hotel. $300,000. J. A. Cannon and L. D. Coltrane both of Concord, interested. Engineer and architect not selected.

N. C., Greensboro — Hotel — O. Henry Hotel Co. soon takes bids 100 room addition, Greene St. $200,000. C. C. Hartmann, Greensboro, archt.

N. C., Goldsboro—Hotel—Local citizens plan 100 room hotel, Mulberry St. $300,000. T. H. Norwood, chn. Hotel Com. of Chamber of Commerce, has matter in charge.

N. C., Kinston—Office—Farmers & Merchants Bank plans 6 story and basement, Queen St. $175,000. Engineer and architect not announced.

N. C., Lexington — Orphanage — Natl. Junior Order United Mechanics plans orphanage, here, 1,000 capacity. Address Chamber of Commerce.

N. C., Wilson—Court House—Wilson Co. having new plans prepared by F. A. Bishop, Petersburg, Va., court house. $400,000. Noted Jan. 24.

N. C., Winston-Salem — Court House — Forsyth Co. plans new court house. $300,000. O. B. Eaton, chn. Bd. Co. Comrs.

Fla., Oldsmar—Hotel—C. P. Bland, 5061 Washington St., St. Louis, Mo., and A. M. Cornell, having plans prepared by P. J. Bradshaw, International Life Bldg., St. Louis, Mo., 250 room hotel, here. $250,000.

Miss., Greenwood—Schools—Voted $165,000 bonds, 2 and 3 story junior high school, small grammar and small grade schools. Bd. Educ. will select architect Feb. 1.

Tenn., Chattanooga—Hotel—Hotel Patten Operating Co., 11th and Georgia Aves., plans 10 story addition, 100 rooms, 11th St. $500,000.

Tenn., Knoxville—Store—Daniel Briscoe Co., Gay St., having plans prepared by R. F. Graf & Son, Arnstein Bldg., 6 story.

Ky., Eminence—Home—Old Odd Fellows and Rebeccas Home having plans prepared by Nevin, Wischmeyer & Morgan, Starks Bldg., Louisville, 2 story, brick and stone, here. $150,000.

Ky., Frankfort—High School—City having plans prepared by Frankel & Curtis, Ben Ali Bldg., Lexington, brick high school, 4th and Shelby Sts. $150,000. Noted Oct. 4.

Ky., Louisville—Office—Famous Players Lasky Corp., Pioneer St. and Bway., Cincinnati, O., plans 3 story, 76 x 105 ft., brick, 1st St. near Chestnut St., here. $150,000.

O., Akron—Y.M.C.A. plans 185 x 265 ft., not less than 8 story, Bowery and Buchtel Sts. $850,000.

O., Cleveland—Apartment—M. Duchon, 1077 Thornhill Dr., having plans prepared by A. F. Janowitz, 811 Prospect Ave., 3 story and basement, 37 x 145 ft., brick, East 93rd St. $150,000.

Buildings (Continued)

O., Cleveland — Apartment — M. Lewin, 11401 Hopkins Ave., and D. Kaufman, 876 Lakeview Rd., having plans prepared by M. Altschuld, 5116 Woodland Ave., 3 story and basement, 47 x 150 ft., brick and timber, Cornell Rd. $175,000.

O., Cleveland — Apartment — J. Libman and I. Lerman, 12324 Edmonton Ave., having plans prepared by L. Skolnik, 6th St. Clair Bldg., 3 story and basement, 37 x 140 ft., brick, East 90th St. $150,000.

O., Cleveland—Apartment—T. Malbin, 1566 Belmar Rd., having plans prepared by A. H. Soffen, Ulmer Bldg., 3 story, 50 x 146 ft., brick and timber, Lake Shore Blvd. $200,000.

O., Cleveland—Apartment—Ohio Building Finance Co., Discount Bldg., having revised plans prepared by J. L. Cameron, 2014 East 105th St., 4 story, 32 x 135 ft., brick, 2052 East 90th St. $150,000. Former bids rejected. Noted June 7.

O., Cleveland—Apartment—A. H. Oyer and J. H. Brockman, Bangor Bldg., having plans prepared by S. H. White, 1032 Schofield Bldg., 4 story, brick and concrete, on lot 50 x 300 ft., East 97th St. $700,000.

O., Cleveland—Apartment—G. W. Spohn and G. P. Nachman, 1775 East 45th St., having plans prepared by M. Weis, 617 Union Bldg., 3 story and basement, 68 x 200 ft., brick, 1906 East 82nd St. $200,000.

O., Cleveland—Cathedral—Cleveland Catholic Diocese plans 1 story, brick, steel and concrete, 11025 Euclid Ave. $1,000,000. Engineer and architect not selected.

O., Cleveland Heights (Warrensville, P. O.) — Church — St. Pauls Episcopal Church, W. Breed, pastor, Statler Hotel, Cleveland, plans 1 and 3 story, brick, steel and concrete, on lot 185 x 500 ft., Fairmount Blvd. and Coventry Rd., here. $1,000,000. Engineer and architect not selected.

O., Cleveland—Club Rooms—High Noon Club, c/o A. L. Davis, secy., Prospect-4th Bldg., having preliminary plans prepared by Thayer & Johnson, 5716 Euclid Ave., altering 4 story building, East 4th St. and Prospect Ave., into club rooms. $150,000.

O., Cleveland—Hospital—St. Lukes Hospital, c/o C. S. Woods, supt., 6600 Carnegie Ave., plans brick, steel and concrete buildings, East 116th St. and Shaker Blvd. $3,000,000. Engineers' and architects' names withheld.

O., Cleveland—Restaurant and Commercial—Clark Restaurant Co., c/o A. V. Clark, pres., 1730 East 24th St., having plans prepared by J. Gray, 169 High St., Boston, Mass., 2 story and basement, 24 x 180 ft., brick, steel and concrete, 1530 Euclid Ave. $150,000. Noted Jan. 24.

O., Cleveland Heights (Warrensville P. O.)—Apartment—H. Freyman, 309 Prospect Ave., Cleveland, having plans prepared by F. W. Hodges, 426 Hickox Bldg., Cleveland, 3 story and basement, 64 x 132 ft., brick, Overlook Rd., here. $175,000.

O., Cleveland Heights (Warrensville, P. O.)—Temple—B'nai Jeshuran Congregation, 3502 Woodland Ave., Cleveland, having plans prepared by C. R. Greco, 729 Guardian Bldg., Cleveland, 1 and 3 story, 180 x 185 ft., brick, steel, concrete and stone, Mayfield Rd., here. $750,000.

O., Cincinnati—Hotel—Hotel Metropole, Walnut St., near 6th St., having plans prepared by H. L. Stevens & Co., 30 North Michigan Ave., Chicago, 10 story, 47 x 94 ft., Walnut St. $500,000.

O., Dayton—Church—Westminster Presbyterian Church, 3rd and Ludlow Sts., had plans prepared by Schenk & Williams, Mutual Home Bldg., Dayton, and R. A. Cram, 248 Boylston St., Boston, Mass., 2 story and basement, 60 x 110 ft., brick and Bedford stone, plain foundation, 1st St. $615,000. Noted Mar. 29.

O., East Cleveland (Cleveland P. O.)—Church—St. Philomenas Roman Catholic Church, c/o J. F. Smith, pastor, 13824 Euclid Ave., Cleveland, plans 1 story, stone and steel, Euclid Ave., here. $200,000. Engineer and architect not selected.

O., Findlay—High School—Bd. Educ. having plans prepared by T. D. McLaughlin, Savings Bldg., Lima, 2 story and basement, 128 x 200 ft., brick and concrete. $225,000.

O., Grandview—Church, etc.—First Community Church soon takes bids 95 x 140 ft. church auditorium, Sunday school assembly and community building, 13,300 sq. ft. floor space, stone, Cambridge Blvd. $200,000. Miller & Reeves, 20 South 3rd St., Columbus, archts.

O., Mansfield—High School—B. Educ. having plans prepared by Althouse & Jones, Market Bldg., 3 story and basement, brick, steel and concrete. $750,000.

O., Massillon—G. H. Schwan Co., archts., Peoples Bldg., Pittsburgh, Pa., and E. Herrmann, associated archt., Massillon, preparing plans Y. M. C. A. building, East Tremont St. $300,000. Noted Nov. 1.

O., Willard—School—Bd. Educ. having plans prepared by G. Scott, Norwalk, brick and steel. $185,000.

Ind., Evansville—Church—Central Methodist Church plans church. $150,000. W. C. Jones, 19 South La Salle St., Chicago, archt. Noted Nov. 29.

Ind., Ft. Wayne—Community—Catholic Community Center having plans prepared by C. R. Weatherhogg, 250 West Wayne St., community building, Jefferson and Barr Sts. $150,000. M. J. Grace, chn. com.

Ind., South Bend — Lodge — Improved Order of Red Men, Montauk Tribe 426, plans lodge and club, Lincoln Way. $150,000. W. Layman, East Jackson Blvd., member of building com. Engineer and architect not selected.

Ind., Valparaiso — School — Bd. Educ. plans grade school to replace one destroyed by fire. $200,000. Engineer and architect not selected.

Mich., Detroit—Apartment—D. A. Brown, 2457 Grand River Ave., having plans prepared by A. Kahn, 1000 Marquette Bldg., 4 story and basement, 100 x 365 ft. brick, steel and stone, plain foundation, Clark Ave. and Fort St.

Mich., Detroit—Mercantile—Central Detroit Realty Co., c/o Weston & Ellington, archts., 1507 Stroh Bldg., having plans prepared 12 story and basement, 95 x 137 ft. rein.-con., brick and terra cotta, plain foundation, John R St.

Mich., Plymouth—School—Bd. Educ. having plans prepared by A. Wood, 3513 Woodward Ave., Detroit, 2 story and basement, 12 room, rein.-con., brick and steel, plain foundation. $150,000.

Ill., Chicago—Store and Office—Schoenbrod & Rosengard, 140 South Dearborn St., having plans prepared 2 story, 125 x 150 ft., fireproof, Trumbell and 26th Sts. $150,000.

Ill., Chicago — Bank and Office — Immel State Bank, c/o C. Hatzfeld, archt., 7 South Dearborn St., having plans prepared 2 story, 50 x 88 x 100 ft., rein.-con., brick and steel, Belmont, Elston and California Sts. $200,000.

Ill., Joliet—Auditorium—Bd. Educ. plans 3 story, steel addition to Joliet High School. $150,000.

Wis., Beloit—Vocational School—Vocational Bd., c/o S. Lange, 711 Merrill Ave., plans 2 story, rein.-con., brick and steel, plain foundation, Pleasant St. $150,000. Engineer and architect not selected.

Wis., Fond du Lac—Theater, etc.—Fisher Paramount Theaters, 36 South State St., Chicago, had plans prepared by G. Levine, 6957 South Green St., Chicago, and soon takes bids 3 story and basement, brick, concrete and terra cotta, plain foundation, here. $500,000.

Wis., Marinette — School — St. Joseph Congregation and W. S. Reynolds, archts., Roosevelt St., Green Bay, soon takes bids 2 story and basement, 65 x 120 ft., brick and tile, plain foundation. $150,000.

Wis., Milwaukee—Apartment—Hotel—G. W. Adams Building Co., 114 Grand Ave., having new plans prepared by R. Razall, 114 Grand Ave., 2 units each 4 story, 103 x 118 ft., brick and concrete, plain foundation, East side. $600,000.

Wis., Milwaukee—Apartment—M. Tullgren & Sons, archts., 425 East Water St., preparing preliminary plans 3 story and basement, brick, tile and concrete, plain foundation, Grand Ave. $175,000. Owner's name withheld.

Wis., Milwaukee — Business — Ninth & Mitchell Realty Co., 216 West Water St., had plans prepared by Herbst & Kuenzli, 114 Grand Ave., 2 story, 92 x 140 ft., brick and concrete, plain foundation. $150,000.

Wis., Milwaukee—Church—St. Boniface Congregation, c/o H. Stemper, 1118 Clarke St., had plans prepared by Riesch & Hess, 128 Wisconsin St., and soon takes bids 2 story, 130 x 186 ft., Clarke and 11th Sts. $250,000.

Wis., Milwaukee—Church—St. Leo Congregation, c/o P. Theisen, pastor, 2442 Locust St., soon takes bids 2 story, 88 x 160 ft., brick and tile, plain foundation, 24th and Locust Sts. $250,000. Engineer and architect not announced. Noted Nov. 8.

Wis., Milwaukee—Clubhouse—Milwaukee Eagles, Aerie 137, T. Manning, chn., 82 Wisconsin St., soon receives competitive sketches 3 story and basement, 50 x 150 ft., brick and concrete, plain foundation, Grand Ave. $500,000.

Wis., Milwaukee—Store and Apartment—V. H. Esser, archt., 82 Wisconsin St., preparing plans 3 story, 100 x 112 ft., brick and tile, plain foundation, North Ave. $50,000. Owner's name withheld.

Wis., Shorewood (Milwaukee, P. O.)—School—School Dist. 4, W. C. Sieker, clk., having preliminary plans prepared by Eschweiler & Eschweiler, 210 Mason St., 2 story and basement, brick, tile and concrete, plain foundation, Atwater Rd. $200,000 complete. Will be erected on unit basis.

Wis., Rhinelander—High School—Mar. 3, by School Bd., 2 story and basement, 135 x 214 ft. and 74 x 87 ft., brick, tile and concrete, plain foundation, Smith Reynolds & Brandt, Dempsey Bldg., Manitowoc, archts.

Ia., Des Moines—School—Bd. Educ having preliminary plans prepared by Boyd & Moore, Fine Arts Bldg., Jr. Highland Park High School, rein.-con., brick and steel. $500,000.

Ia., Ft. Dodge — Hospital — St. Josephs Hospital c/o Sisters of Mercy, takes bids in February 3 story and basement, 45 x 135 ft., rein.-con., brick and tile addition, plain foundation. To exceed $150,000. W. L. Steele, United Bank Bldg., Sioux City, archt. Noted Oct. 4.

Ia., Iowa City—Memorial—University of Iowa having preliminary plans prepared by Boyd & Moore, Fine Arts Bldg., Des Moines, 3 story and basement, 166 x 230 ft., on Campus. $1,000,000.

Ia., Tipton—School—Election soon to vote on $250,000 bonds for school. Thomas, McLenon & Thomas, 527 West 17th St., Des Moines, archts.

Minn., St. Paul—Hotel—Alverdes Restaurant, Inc., 379 St. Peter St., having plans prepared by Hausler & Kerr, 548 Hamm Bldg., 15 story and basement, 80 x 120 ft., rein.-con., brick and tile, 379 St. Peter St. $1,000,000.

Minn., St. Paul—School—Dept. Educ., City Hall, plans 3 story and basement, rein.-con., brick and tile, Marion and Gaultier Sts. $200,000. F. X. Tewes, city archt.

Kan., Chanute—Memorial—City having plans prepared by Lorentz Schmidt & Co., 516 4th Natl. Bank Bldg., Wichita, 3 story, rein.-con. and brick, plain foundation, will contain auditorium 2,000 seating capacity, city hall, officers, fire department, etc. $200,000. Noted Nov. 7.

Kan., Newton—College—Bethel College soon takes bids 2 story and basement, 76 x 134 ft., rein.-con. and stone, on Campus. $150,000. Foundation and basement being built by day labor. Lorentz Schmidt & Co., 4th Natl. Bank Bldg., Wichita, archts.

Kan., Winfield—College, Dormitory, etc.—St. Johns Lutheran College having plans prepared by Lorentz Schmidt & Co., 516 4th Natl. Bank Bldg., Wichita, rein.-con. and brick, plain foundation. $350,000.

Neb., Grand Island — Temple — Masonic Assn. having plans prepared by Kirschke & Baker, Ryan Bldg., 7 story and basement, 33 x 52 ft. rein.-con., brick and steel. $150,000.

Neb., Omaha—Lodge—I. O. O. F., 1402 Dodge St., having plans prepared by W. E. Stockham, 426 Sunderland Bldg., 5 story and basement, 80 x 120 ft. brick and stucco, 19th and Capital Sts. $200,000.

Neb., South Omaha — Exchange — Union Stock Yards Co., 38 South Dearborn St., Chicago, having preliminary plans prepared by G. B. Prinz, 1037 Omaha Natl. Bank Bldg., Omaha, 10 story and basement, 160 x 160 ft. brick and stone. $1,000,000.

N. D., Bismarck—Cathedral—Holy Ghost Cathedral, V. Wehrle, bishop, having plans prepared by A. Dohmen, 68 Wisconsin St., Milwaukee, Wis., 2 story, 96 x 200 ft. brick, stone and tile, plain foundation, $500,000.

Mo., Independence—Sunday School—First Presbyterian Church soon takes bids 3 story and basement, 53 x 56 ft., rein.-con., brick, stone, etc., plain foundation. $150,000. Shephard & Wiser, 302 R. A. Long Bldg., Kansas City, archts.

Mo., Jefferson City—High School—Bd. Educ. plans 3 story, rein.-con., brick, stone and tile, plain foundation. $200,000. Engineer and architect not announced.

Mo., Joplin—Convention Hall—City having plans prepared by A. S. Michaelis, 324 Miners Bank, 2½ story, 8th and Joplin Sts. $250,000.

Buildings (Continued)

Mo., Koch—Employees, etc.—City of St. Louis soon takes bids 3 story employees building, $150,000, also 3 story and basement, 62 x 165 ft. mens infirmary, $230,000, both rein.-con., steel, stone and brick, for Robert Koch Hospital, here. L. R. Bowen, 301 City Hall, St. Louis, engr. E. E. Christopher, 301 City Hall, St. Louis, archt.

Mo., Springfield—Club and Office—Aviation Town & Country Club, plans 32 story, rein.-con., steel, brick and tile, Washington and Clifton Sts. $2,000,000. Engineer and architects names withheld.

Mo., St. Joseph — College — Christian Brothers Commercial College, 12th and Henry Sts., plans 3 story, brick, concrete and stone, etc. $200,000. May not mature until early in 1925. F. X. Gilfillan, bishop. Engineer and architect not announced.

Mo., St. Louis — Market — City having plans prepared by E. E. Christopher, 301 City Hall, 3 story and basement, 226 x 270 ft., rein.-con., brick, stone and steel, Bway. $1,000,000. H. Updike, and L. R. Bowen, 301 City Hall, engrs.

Ark., Pine Bluff—Church—Presbyterian Church, c/o R. E. Fry, pastor, plans 2 story, brick and stone, church and Sunday school. $150,000. Engineer and architect not announced.

Tex., Ft. Worth—Office—W. L. Hurst, 2610 Azel St., plans 11 story. $150,000. Engineer and architect not announced.

Tex., San Antonio—Business—T. Goggan & Bros., c/o Woolworth Bldg., having plans prepared by R. Kelly, 310 Brody Bldg., 6 story, brick and rein.-con., Bway. and Travis St. $150,000.

Tex., San Antonio — Church — Baptist Church, 126 4th St., having plans prepared by J. M. Marriott, Frost Bldg., remodeling and repairing stone church, also constructing 2 story, brick addition. $150,000.

Colo., Denver—High School—School Dist. had plans prepared by G. H. Williamson, Majestic Bldg., 4 story, 280 x 417 ft., brick, terra cotta, steel and concrete, plain foundation, Detroit and Colfax Sts. $1,800,000.

Colo., Denver—High School—School Dist. 1 had plans prepared by W. H. Edwards, 1172 Stout St., 3 story, 250 x 450 ft., rein.-con., brick and steel, concrete pile foundation, between West 9th and West 10th Aves. and Elati and Fox Sts. $1,000,000.

Calif., Huntington Park (Branch Los Angeles)—Theatre—Hulsman & Boyd having plans prepared by Lindley & Selkirk, Amer. Bank Bldg., Los Angeles, 3 story, 114 x 150 ft. rein.-con. $200,000.

Calif., Lemoore—High School—Lemoore Union High School Dist. had plans prepared by W. H. Weeks, 369 Pine St., San Francisco, rein.-con., to contain 30 classrooms and auditorium. $325,000. Noted May 17.

Calif., Long Beach—Store and Loft—Middough Bros., 126 West Bway., having plans prepared by H. H. Lochridge, Markwell Bldg., 6 story and basement, brick and steel, Locust St. and Bway. To exceed $150,000.

Calif., Los Angeles—Apartment—T. C. Kistner, archt., Pantages Theatre Bldg., preparing plans 4 story and basement, 50 x 150 ft., brick, Bonnie Brae St. Owner's name withheld.

Calif., Los Angeles—Apartment—E. J. Stange, 1647 West 11th St., had plans prepared by H. W. Charlton, Central Bldg., 4 story and basement, 55 x 115 ft., brick, Witmer St. $150,000.

Calif., Los Angeles — Church — Melrose Ave. Methodist Episcopal Church, c/o R. H. Orr, archt., Corporation Bldg., had preliminary plans prepared for chapel, educational building for bible school, etc., brick and concrete. To exceed $300,000.

Calif., Los Angeles—Store, Office and Loft—M. Lombardi, et al., 1203 North Kenmore Ave., having plans prepared by Taylor & Taylor, 713 8th St., 8 story (ultimately 12 story), 50 x 100 ft., rein.-con. or steel frame, Bway.

Calif., Los Angeles—Office—Tropp Realty Co., 7th and Hill Bldg., representing interests, having preliminary plans prepared by Walker & Eisen, Pacific Finance Bldg., 13 story and basement, 100 x 184 ft., rein.-con., Francisco and 8th Sts.

Calif., Oakland—Bank—Bank of Italy, Eddy and Powell Sts., San Francisco, having plans prepared by H. A. Minton, 550 Montgomery St., San Francisco, 2 story addition to bank on 11th St. and Bway., here, Class A construction. $150,000.

Calif., Oakland—Hotel—Clay-To-Castro Improvement Assn., c/o C. H. Miller, archt., Perry Bldg., is representing interests and having preliminary plans prepared Class A Hotel, Jefferson St. near 14th St. $500,000.

Calif., Ocean Park—Theatre—See "Unclassified."

Calif., Sacramento—Store—C. P. Nathan & Sons Co., 800 L St., plans fireproof department store, J St. between 11th and 12th Sts. To exceed $150,000. Engineer and architect not selected.

Calif., San Francisco—Apartment—M. K. Ladd, c/o Baumann & Jose, archts., 251 Kearny St., having plans prepared 6 story and basement, rein.-con., O'Farrell St. $150,000.

Calif., San Francisco—Apartment—Stock & Jose, c/o Baumann & Jose, archts., 251 Kearny St., having plans prepared 6 story and basement, rein.-con., Hyde and O'Farrell Sts. $150,000.

Calif., San Francisco — Natatorium — E. Cerruti, (New Crystal Palace Baths,) c/o P. Righetti, archt., 12 Geary St., having plans prepared 50 x 150 ft. tank with filtration system, Lombard and Taylor Sts. $150,000.

Calif., San Jose—High Schools—Bd. Educ. plans to build two high schools, also grammar school. $700,000 and $95,000. Noted Nov. 15.

Calif., Venice—Apartment—J. Quinto, c/o Russell & Alpaugh, archts., Story Bldg., Los Angeles, having plans prepared 12 story and basement, 75 x 80 ft. brick, here.

Que., Montreal — Office — Title Trust & Guarantee Co. of Canada, E. R. Decary, director-general, plans 14 story, 130 ft. high, 144 x 172 ft., St. James St. Royal Bank of Canada, St. James St., will finance above project.

BIDS DESIRED

Mass., Boston — Fire Signal Station — Feb. 6, by T. A. Glynn, fire comr., Bristol St., 1 story and basement, 75 x 125 ft., rein.-con., Indiana limestone and Vermont blue marble, wood pile foundation, Westland Ave. Cost of building $220,000, cost of apparatus and changing wiring system $280,000. O'Connell & Shaw, 134 Newberry St., archt. J. T. Shaw, city fire dept. engr. and archt. Noted Apr. 12.

Mass., Webster—School and Rectory—H. F. Ludorf, archt., Mutual Bldg., New Britain, taking bids 2 story and basement, 120 x 140 ft. school, and 2 story, 46 x 50 ft. rectory, brick, plain foundation, Myrtle St., here, for St. Joseph Roman Catholic Church. A. A. Cryan, pastor. $200,000.

Conn., Bristol—Hospital—Feb. 2, by R. S. Newell, chn. com. Bristol Hospital, 249 Main St., 4 story and basement, 47 x 100 ft. main building, 2 story and basement, 50 x 60 ft. service building and 3 story and basement, 40 x 100 ft. nurses building. $400,000. C. S. Palmer, 114 Whitney Ave., New Haven, archt.

N. Y., Hamburg—High School—Feb. 11, by Bd. Educ., 2 story and basement, 150 x 250 ft., rein.-con. and brick, Pleasant Ave. To exceed $300,000. Former bids rejected. F. A. Spangenberg, 250 Delaware Ave., Buffalo, archt. Noted June 7.

N. Y., Rome—Employees—Feb. 25 (extended date) by R. C. Briggs, pres. Bd. Mgrs. State School for Mental Defectives, constructing, etc., employees building. S. W. Jones, Albany, state archt.; adv. E. N.-R. Jan. 31. Noted Jan. 10.

N. J., Florence—School—Feb. 7, by Bd. Educ., Florence Twp., 2 story and basement, 84 x 146 ft., brick and steel, plain foundation. $175,000. P. L. Fowler Co., 25 North Montgomery St., Trenton, archts.

Pa., Lancaster — School — Feb. 7, by School Bd., Administration School Bldg., Prince and Chestnut Sts., 3 story, West Walnut and Nevin Sts. C. E. Urban, 442 Woolworth Bldg., archt. Noted Dec. 27.

Pa., Phila.—Hospital—Feb. 28, by P. Johnson, archt., 1713 Sansom St., constructing hospital for crippled children, refectory building, 3 story, 44 x 59 ft., 2 dormitories each 2 story, 25 x 43 ft., administration building 3 story, 42 x 126 ft., power house 1 story, 40 x 66 ft., also three 2 story wings 25 x 45 ft., 27 x 36 ft. and 25 x 41 ft., brick and steel, plain foundations, Roosevelt Blvd. near Pennyback Park, for Penna. Mystic Shrine, 1337 Spring Garden St. $500,000.

Pa., Phila.—Institute—Feb. 5, by Ballinger & Co., archts., 12th and Chestnut Sts., 5 story and basement, 92 x 102 x 123 x 150 ft. brick and steel, plain foundation, for Seamans Church Institute, Walnut and Dock Sts. $300,000.

Pa., Phila. — Schools—Feb. 7, by Bd. Educ., 3 story and basement, 50 x 120 ft. with two 48 x 97 ft. wings, and one 50 x 96 ft. wing, rein.-con. and brick, B St. and Wyoming Ave., $500,000, also 3 story and basement, 39 x 120 ft. with two 38 x 76 ft. wings and one 38 x 105 ft. wing, rein.-con. and brick, plain foundations, Beuner and Pitman Sts., $500,000.

Pa., Phila.—Synagogue and Community —Feb. 4, by Congregation B'Nai Jeshurum, c/o M. Teber, 1011 Chestnut St., 2 story and basement, 140 x 150 ft. brick and steel, plain foundation, 33rd St. between Diamond and Susquehanna Aves. $200,000. Sugarman, Hess & Berger, 16 East 43rd St., New York City, archts.

Pa., Phoenixville—Bank—Feb. 14, by A. D. Eaches, cashier Natl. Bank of Phoenixville, 2 story and basement, 50 x 88 ft., brick and steel, plain foundation, Bridge St. $150,000. J. H. Mowere, 201 Bridge St., archt.

Md., Baltimore—Bank—Feb. 6, by J. E. Sperry, archt., Calvert Bldg., remodeling bank on Howard and Madison Sts., for Commonwealth Bank, Madison and Howard Sts. $150,000.

Md., Baltimore—Synagogue—Feb. 16, by S. Russell, archt., 11 East Lexington St., 2 story, 72 x 73 ft. synagogue and 35 x 85 ft. house, Garrison and Dalrymple Aves., stone, plain foundation, for Beth Tfilloh Synagogue, Equitable Bldg. $250,000. Noted Dec. 6.

La., Shreveport—High and Grade School —Feb. 4, by Caddo Parish School Bd., 3 story high school, concrete, brick and stone, also West Grade School, concrete and brick. $800,000. W. F. Nield, Shreveport, archt.

Tenn., Chattanooga—Hotel—Mar. 1, by Hotel Patten Operating Co., 11th St. and Georgia Ave., 10 story addition, 11th St. Smith & Downing, Atlanta, Ga., archts.

O., Bellaire—High School—Feb. 15, by Bd. Educ., 2 story and basement, 85 x 250 ft., brick, stone and concrete. $350,000. C. W. Bates, 77 12th St., Wheeling, W. Va., archt.

O., Canton—Store—Stern-Mann Co., Market Ave. N., taking new bids altering and building 2 and 3 story, 33 x 200 ft., brick, steel and concrete addition. $150,000. A. Garfield, 915 Natl. City Bldg., Cleveland, archt. Noted Apr. 2.

O., Celina—High School—Feb. 8, by Bd. Educ., 2 story and basement, 127 x 158 ft., brick, steel and concrete. $250,000. P. M. Hulsken, 216 West Market St., Lima, archt. Noted Oct. 4.

O., Cleveland — Apartments — T and R Constr. Co., 8318 Cedar Ave., taking bids and opens same about Feb. 15, two 3 story and basement, 37 x 157 ft. and 37 x 94 ft., brick, one at 775 East 80th St., other at 732 East 90th St. $175,000. M. Altschuld, 5116 Woodland Ave., archt.

O., East Cleveland (Cleveland P. O.)—Apartment—Cadkin & Jones, 3300 East 121st St., Cleveland, taking bids and open same about Feb. 15, 3 story and basement, 47 x 145 ft., brick, 1725 Wymore Ave., here. $150,000. Braverman & Havermaet, 201 Ulmer Bldg., Cleveland, archts.

O., Portsmouth — Temple — Feb. 11, by Building Com. Masonic Temple Assn., 3 story and basement, 84 x 180 ft., brick, stone, terra cotta and concrete, Gallia St. $500,000. Pretzinger & Musselman, 1155 Reibold Bldg., Dayton, archts.

O., Tiffen—High School—Feb. 15, by Bd. Educ., 2 story and basement, brick and concrete addition. $150,000. Langdon, Hohly & Gram, Toledo, archts.

O., Youngstown—Hospital—Feb. 14, by Mahoning Co., 3 story, brick, steel and concrete, Austintown Twp. $150,000. Stanley & Scheibel, Wick Bldg., archts. Noted Nov. 15.

Ind., Bloomington — Lodge — Rubush & Hunter, archts., 430 Amer. Central Life Bldg., Indianapolis, taking bids 2 story, 87 x 127 ft., limestone and steel, 7th and College Sts., for Masonic Lodge. $200,000.

Ind., Ft. Wayne—School—Feb. 8, by Bd. Educ., Lakeside Public School, Forest Park, $275,000; Harrison Hill School, $175,000, both brick and steel. G. Mahurin, 425 Standard Bldg., and C. R. Weatherhogg, 250 West Wayne St., archts. on respective schools. Noted Jan. 17.

Mich., Detroit—Bank and Office—Feb. 7, by A. Kahn, archt., 1000 Marquette Bldg., 5 story and basement, 65 x 81 ft. rein.-con.,

Buildings (Continued)

brick, steel and stone, plain foundation, Griswold St., for Security Trust Co., 655 Griswold St. $200,000.

Mich., Ypsilanti—School—Feb. 14. by W. M. Derbyshire, secy. Bd. Educ., 3 story, 140 x 160 ft. rein.-con., brick and steel, plain foundation, $200,000. Warren Holmes-Power Co., Tussing Bldg., Lansing, archts.

Ill., Chicago—Hotel—Rissman & Hirschfeld, archts., 64 West Randolph Sts, taking bids 3 story, 75 x 150 ft., fireproof, 1025 North Dearborn St., for F. Brons, c/o archt. $200,000.

Ill., Urbana—College—Feb. 11 (extended date), by J. M. White, archt., 256 Administration Bldg., general construction 4 buildings on campus. Noted Dec. 13.

Ill., Wheaton—High School—Feb. 18, by Bd. Educ., 3 story and basement, 150 x 300 ft., brick, concrete and stone, plain foundation. $160,000. J. C. Llewellyn, 38 South Dearborn St., Chicago, archt. Noted Oct. 25.

Wis., Appleton—High School—Feb. 19, by School Bd., H. Reuter, chn. building com., 2 story and basement, brick, tile and concrete, plain foundations. Total cost $400,000. Perkins, Fellows & Hamilton, 814 Tower Court, Chicago, archts. Noted Nov. 22.

Wis., Kenosha — Temple — Feb. 4, by Masonic Temple Assn., c/o J. M. Albers, chn. building com., 2 story, 80 x 120 ft., brick and concrete, plain foundation. $150,000. R. G. Schmidt & Co., 77 West Washington St., Chicago, archts.

Wis., Milwaukee—Apartment—Feb. 16, by C. W. Valentine, archt., 405 Bway, 7 story, 95 x 135 ft., brick and concrete, plain foundation, Prospect Ave., for L. C. and L. Goldman, 534 Mitchell St. $350,000.

Wis., Milwaukee—Business—M. Tullgren & Sons, archts., 425 East Water St., taking new bids 4 story and basement, 87 x 150 ft., brick and concrete, plain foundation, 3rd St. for C. Niss & Sons, 697 3rd St. $200,000. Former contract recinded. Noted Jan. 17.

Calif., San Francisco — Post Office — J. Kulp, 33 South La Salle St., Chicago, receiving bids 4 story and basement, fireproof, The Embarcadero, here. To exceed $150,000. U. S. Government, lessee. Noted Dec. 20.

Wis., Wausau — School — Feb. 15, by School Bd., S. B. Tobey, supt. schools, superstructure, 2 story, 54 x 162 ft. and 30 x 40 ft., 2nd unit to Central School, brick, tile and concrete, plain foundation. $150,000. Oppenhamer & Obel, Spencer Bldg., archts

Minn., Minneapolis—School—Feb. 15, by Bd. Educ., 305 City Hall, 2 story and basement, rein.-con., brick and tile, 15th Ave. N. and 4th St. $200,000. Bureau of Bldgs., Bd. Educ., City Hall, archts.

Neb., Falls City—Hotel—Feb. 12, by J. H. Craddock & Co., 315 South 15th St., Omaha, 4 story and basement, 92 x 130 ft. brick and stone, for Falls City Hotel Co. $150,000.

Tex., Houston—School—Sisters of Charity of Incarnate Word taking bids 3 story and basement, 65 x 260 ft., concrete, brick and stone, incl. power house, dormitory, class rooms, etc., Wayside and Telephone Rds. $500,000. M. Sullivan, 2nd Natl. Bank Bldg., archts.

Tex., Houston — Library — City taking bids and opens same about Feb. 15, 3 story and basement, 57 x 200 ft., rein.-con. and brick, McKinney and Smith Sts. $200,000. W. W. Watkins, Scanlon Bldg., archt. Cram & Ferguson, 248 Boylston St., Boston, Mass., consult. archts. Noted Dec. 20.

Calif., Stockton — Bank — L. P. Hobart, archt., Crocker Bldg., San Francisco, receiving bids 1 story (ultimately 10 story), rein.-con., Main St., for Union Safe Deposit Bank of Stockton, here. $150,000.

BIDS RECEIVED

N. Y., Brooklyn—School—W. H. Gompert, archt., Flatbush Ave. extension and Concord St., Jan. 22, P. S. 197, Elmore Pl. through to Delamere Pl., 200 ft. south of Ave. O, from T. A. Clarke Co., 122 Livingston St., $787,300, A deduct $14,000, B add $11,000, C add $4,000. Noted Jan. 17.

N. Y., Creedmoor (Jamaica, P. O.)—W. T. Gompert, archt., Flatbush Ave. extension and Concord St., Brooklyn, Jan. 22, P. S. 33, 222nd St. through to 224th St. from 91st Rd. to 92nd Ave., here, for Bd. Educ., 500 Park Ave., New York City, from Frymier & Hanna Co., Inc., 25 West 45th St., New York City, $798,900, A deduct $15,000, B add $11,671, C add $2,856. Noted Jan. 10.

N. Y., Jamaica—School—W. H. Gompert, archt., Flatbush Ave. extension and Concord St., Brooklyn, Jan. 22, P. S. 116, Wren Pl. from Pohlemas Ave. to Rex Rd. and extending to Fern Pl., Jamaica south, here, for Bd. Educ., 500 Park Ave., New York City, from Dooley-Stapleton Co., $807,000, A deduct $21,000, B add $2,500, C add $5,500. Noted Jan. 10.

Minn., St. Paul—School—Dept. Educ., City Hall, Jan. 22, 2 story and basement, rein.-con., brick and tile, general contract from Perry A. Swanson Co., 345 Endicott Bldg., $122,014. Noted Jan. 17.

CONTRACTS AWARDED

Mass., Brookline (Boston P. O.)—Apartment—Brookline Realty Associates, Inc., will build five 3 story, brick, stone and concrete, plain foundation, Alton Court, by day labor. $200,000. Private plans.

Conn., Meriden — Telephone — Southern New England Telephone Co., 114 Court St., New Haven, 3 story, 60 x 100 ft., brick and concrete, plain foundation, Butler St., to Immick Co., State St. Archts. est. $135,000-$150,000. Noted Oct. 11.

Conn., Norwich — Ward, etc. — Norwich State Hospital for Insane, 3 story ward building, and 2 story and basement nurses home, both brick, fireproof, at State Hospital, to H. Wales Lines Co., 134 State St., Meriden, $225,000 and $145,000 respectively. Archts. est. $370,000. Noted July 26.

N. Y., Brooklyn—Apartment—C. & K. Constr. Co., c/o Shampan & Shampan, archts. and engrs., 189 Montague St., will build 6 story, 84 x 210 ft., brick, stone and steel, plain foundation, Ocean Ave. near Albermarle Rd., by day labor. $700,000.

N. Y., Brooklyn—Hospital—Bikur-Cholim Hospital, Lafayette and Sumner Aves., brick, steel and stone, plain foundation, Sumner and Lafayette Aves., to Tenential Corp., 565 5th Ave., New York City. Archts. est. $1,000,000. Noted Aug. 9.

N. Y., Long Island City—School—Church of St. Patrick, 123 Academy St., 3 story, brick, steel and stone, plain foundation, Paynter Ave., to G. H. McEntee Co., 103 Park Ave., New York City. Archts. est. $200,000.

N. Y., New York—Apartment—S. Gennenberg, c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., will build 6 story, brick, steel and stone, plain foundation, Grand Concourse and 196th St., by day labor. $400,000.

N. Y., New York—Apartment—J. Kliner, c/o D. S. Lang, archt. and engr., 110 West 40th St., will build 5 story, brick, steel and stone, plain foundation, Whitlock Ave., by day labor. $250,000.

N. Y., New York — Apartment — H. A. Lenzer, c/o Gronenberg & Leuchtag, archts. and engrs., 450 4th Ave., will build 6 story, brick, steel and stone, plain foundation, Haven Ave. and 178th St., by day labor. $1,000,000. Noted Nov. 29.

N. Y., New York — Apartment — H. O. Osenoff, c/o Gronenberg & Leuchtag, archts. and engrs., 450 4th Ave., will build 6 story, brick, steel and stone, plain foundation, Nelson Ave., by day labor. $350,000.

N. Y., New York—Apartment—Phelan & Billingsley, Inc., c/o Moore & Landseidel, archts. and engrs., 148th St. and 3rd Ave., will build brick, steel and stone, plain foundation, Burnside Ave., by day labor. $250,000.

N. Y., New York—Bank and Office—Bank of America, Wall and William Sts., 23 story, brick, steel and stone, plain foundation, to C. T. Wills, Inc., 286 5th Ave.; 4,500 tons steel, to Post & McCord, 101 Park Ave.

N. Y., New York—Bank—Chatham & Phenix Natl. Bank, 149 Bway., 3 story, brick, stone and steel, 144 East 86th St., to Sobray Whitcomb Co., 105 West 40th St. Archts. est. $150,000.

N. Y., New York—Office and Showroom—M. Kosofsky, c/o Gronenberg & Leuchtag, archts. and engrs., 450 4th Ave., will build 10 story, brick, steel and stone plain foundation, 7th Ave. and 38th St., by day labor. $300,000.

N. Y., New York — Office — Dwight P. Robinson, 125 East 46th St., will build 11 story, brick, stone and steel, plain foundation, 2 Vanderbilt Ave., by separate contracts. $500,000. Warren & Wetmore, 10 East 47th St., archt. H. G. Baleoni, 10 East 47th St., engr.

N. Y., New York—Store and Loft—Trinity Corp., c/o Starrett & Van Vleck, archts., 8 West 40th St., 6 story, brick, stone and steel, plain foundation, Varick St., to Rheinstein & Haas, Inc., 21 East 40th St. Archts. est. $200,000.

Pa., Palmerton—High School—W. H. Lee, archt., 15th and Race Sts., 3 story and basement, 139 x 165 ft., 3rd and Lafayette Sts., for Bd. Educ., general contract to J. Y. Loux, 15th and Hunting Park Aves., $224,480, heating to B. G. Carpenter Co., Wilkes-Barre, $32,500 Noted Jan. 17.

Pa., Phila.—Apartment—Arrow Constr. Co., 1627 Sansom St., will build 4 story and basement, 150 x 170 ft., brick and steel, plain foundation, Overbrook Ave. and Lancaster Pike, by day labor. $300,000. Private plans.

Pa., Reading—Hospital—F. H. Muhlenberg, archt., Hope Bldg., 6 story and basement, 45 x 150 ft., rein.-con., brick and steel, plain foundation, Walnut St., for St. Joseph Hospital, to L. H. Foch & Son, Reading. Noted Dec. 13.

Pa., St. Marys—High School—St. Marys Roman Catholic Church, 2 story and basement, to Hyde-Murphy Co., Ridgeway. Archts. est. $150,000.

Pa., Tamaqua—Lodge—Loyal Order of Moose, 3 story, brick, stone and stucco, to Butz & Clayder Co., Allentown, $150,000.

Md., Baltimore—Bank—J. E. Sperry, archt., Calvert Bldg., altering and building 1 story, 25 x 128 ft., brick addition, Howard and Saratoga Sts., to Cogswell-Koether Co., 406 Park Ave., $150,000, for Calvert Bank. Noted Jan. 10.

S. C., Spartanburg—Office—Montgomery Bldg., Inc., 10 story and basement, 132 x 188 ft., rein.-con., and steel, wood pile foundation, to Lockwood-Green & Co., 24 Federal St., Boston, Mass., $1,000,000; contractors taking bids on 970 tons structural steel and steel fireproofing. Noted Oct. 11.

Tenn., Nashville — Hospital — Protestant Hospital, 200 Church St., 4 story, rein.-con., brick and steel, concrete pile foundation; concrete work to Foster-Creighton Co., 4th and 1st Natl. Bank Bldg., brick work to J. R. Vaughn, cut stone to J. Oman, Jr., Chamber Commerce Bldg., steel work to Nashville Bridge Co., Shelby Ave. Archts. est. $150,000.

O., East Cleveland (Cleveland P. O.)—Commercial and Apartment — Commodore Impvt. Co., Ulmer Bldg., Cleveland, masonry contract 12 story, 122 x 160 ft., brick, steel and concrete, Euclid Ave. and Ford Dr., here, to J. Miller, 10719 Drexel Ave., Cleveland. Archts. est. $750,000.

O., Kalida—Church—St. Nichols Congregation, 1 story and basement, brick and stone, to Orr & Miller, 510 Savings Bldg., Lima, $175,000.

O., Lakewood—Commercial and Apartment—S. Rosenthal, Ulmer Bldg., Cleveland, 3 story and basement, 60 x 120 ft., brick, 13540 Detroit Ave., here, to J. M. Buros, 482 East 110th St., Cleveland. Archts. est. $150,000.

O., Shelby—High School—Bd. Educ., 2 story and basement, 195 x 250 ft., brick and concrete, to E. Mast & Sons, Zanesville, $172,998; plumbing and heating, to Knox Plumbing & Heating Co., Mansfield, $46,000. Noted Jan. 10.

O., Toledo — Bank — First Natl. Bank, Summit St., altering and building 2 story, brick, steel and stone addition, plain foundation, to Hoggson Bros., 485 5th Ave., New York City. Archts. est. $400,000.

Mich., Detroit—Office—Conductors Protective Assurance Co., 2222 First Natl. Bank Bldg., 6 story and basement, 57 x 108 ft. rein.-con. and brick, plain foundation, 14th and Michigan Aves., to W. E. Lennane, 2631 Woodward Ave. Archts. est. $150,000.

Mich., Ironwood—School—Bd. Educ., 3 story and basement, rein.-con., brick and stone, general contract to P. J. Nickel, Ironwood, $713,464, plumbing and heating to Shoppe Eng. Co., 87 South 13th St., Minneapolis, Minn., $104,278, electric wiring to Sterling Electric Co., 33 South 5th St., Minneapolis, $41,000. Noted Jan. 24.

Ill., Chicago—Apartment—S. Dulkin, c/o J. H. Klafter, 127 North Dearborn St., 3 story, 45 x 100 ft., fireproof, Lincoln and Aubert Sts., to B. Kappel, 2114 West North Ave. Archts. est. $150,000.

Ill., Chicago—Hotel—Chicago Hotel Co., 15 East Monroe St., 21 story, 246 x 254 ft., fireproof, State, Monroe and Wabash Sts., known as Palmer House Hotel, to Starrett Bros., 8 South Dearborn St. Archts. est. $5,000,000. Noted Jan. 25, 1923.

Buildings (Continued)

Wis., Milwaukee — Apartment — Ivanhoe Realty Co., c/o H. J. Kusel, 35 South Dearborn St., Chicago, 3 story and basement, 50 x 60 x 160 ft., brick, tile and concrete, plain foundation, Farwell Ave., here, to H. Schmitt & Son, 430 Farwell Ave. Archts est. $250,000.

Wis., Milwaukee—Business—F. W. Woolworth Co., 301 Grand Ave., 2 story, 64 x 120 ft., brick and concrete, plain foundation, Vliet St., to S. M. Siesel Co., 160 Ogden Ave. Archts. est. $150,000.

Wis., Milwaukee—Office—Broadway-Wisconsin Investment Co., c/o contractor, 5 story and basement, 80 x 120 ft., brick and concrete, plain foundation, Bway., to Bently Bros., 808 South Pierce St. $380,000.

Kan., Topeka—Hospital—Security Benefit Assn., Security Bldg., 3 story, 40 x 110 ft., concrete, brick and stone, to Lundgren & Carlson, 213 Jackson St. Archts. est. $200,000. Noted Dec. 13.

Calif., Los Angeles—Apartment—Stonehill Constr. Co., Stock Exch. Bldg., will build 3 story and basement, brick, 42nd and Main Sts., by day labor. $150,000.

Calif., Los Angeles—Home—Good Shephert Convent, 1312 Arlington St., 4 story and basement, rein.-con. and brick, general contract to Bavin & Burch, 173 East Jefferson St., $138,600. Noted Dec. 6.

Federal Government Work

PROPOSED WORK

R. I., Providence—Dredging—War Dept., Chief of Engineers, Wash., D. C., plans dredging in Connecticut River.

N. Y., New York—Dredging—U. S. Engineer, Army Bldg., Whitehall St., rejected bids Jan. 14, dredging in harbor at Flushing Bay, 1st Dist. Noted Jan. 10.

N. J., Killochook Meadows—Dike and Sluice—War Dept., Chief Engineers, Wash., D. C., plans dike and sluice in Delaware River here.

N. C., Fayetteville—Lock—O. O. Keuntz, dist. engr., Wilmington, will make surveys for new lock on Cape Fear River between here and Wilmington.

Ala., Florence—Switchboard Apparatus—War Dept., Chief of Engineers, Wash., D. C., plans to purchase switchboard apparatus.

Ky., Addison—Copper Rods—U. S. Engineer, P. O. 72, Louisville, plans to purchase 80 tons ⅜ and 1 in. form and copper rods.

Ky., Louisville—Steel Boat Hulls—U. S. Engineer, P. O. Box 72, plans to purchase 3 steel hull maneuver boat hulls for Cincinnati Dist., 24 x 60 ft.

Ore., Tillamook—Channel—U. S. Government, Tillamook, having surveys made 24 ft. channel through Tillamook Harbor to ocean. G. Mayo, Post Office Bldg., Portland, engr.

BIDS DESIRED

Mass., Plymouth—Dredging—Feb. 25, by U. S. Engineer, 13th Floor Custom House, Boston, dredging in Plymouth Harbor, here; adv. E. N.-R. Jan. 31.

N. Y., New York—Laundry Equipment—Feb. 13, by Bureau Yards & Docks, Navy Dept., Wash., D. C., reinstallation of laundry equipment, etc. at Naval Hospital, here; adv. E. N.-R. Jan. 31.

Pa., Phila.—Water Piping—Feb. 26, by Treasury Dept. at office J. A. Wetmore, acting supervising archt., new water piping, etc., at United States Appraisers Stores, here; adv. E. N.-R. Jan. 31.

D. C., Wash.—Piles—Feb. 6, by A. L. Flint, genl. purch. officer of Panama Canal, Wash., D. C., furnishing on dock at either Cristobal (Atlantic port) or Balboa (Pacific port) Canal Zone, Isthmus of Panama, creosoted yellow pine or Douglas fir piles.

W. Va., Huntington—Steel Boat Hull—Feb. 28, at office U. S. Engineer, Huntington, steel quarter boat hull for Ohio River; adv. E. N.-R. Jan. 31.

Miss., Vicksburg—Artesian Wells—Feb. 11, by U. S. Engineer, Vicksburg, sinking 2 deep artesian wells.

Ind., Leavenworth—Lumber—Feb. 4, by U. S. Engineer, P. O. Box 72, Louisville, Ky., furnishing 80,000 ft. yellow pine for Dam 44, Ohio River. Former bids rejected. Noted Jan. 24.

Minn., Duluth—Dump Scow—Feb. 28, by U. S. Engineer, one steel dump scow; adv. E. N.-R. Jan. 31.

Tex., Ft. Worth—Mooring Mast—Spec. 4939—Feb. 13, by Bureau Yards & Docks, Navy Dept., Wash., D. C., erecting mooring mast here.

ROAD WORK—KENTUCKY

Following are lowest three bids opened by State Highway Comn., Frankfort, Jan. 8, for constructing Owenton-Georgetown Rd., Scott Co., (A) Georgetown Constr. Co., Georgetown; (B) Staebler Constr. Co., St. Matthews; (C) J. W. Harris Contg. Co., Covington. The unit bids were as follows:

	A	B	C
2 acres clearing and grubbing (lump sum)	$100 00	$125 00	$250 00
Removing 864 trees and stumps	4 00	5 00	5 00
87,780 cu.yd. earth excavation	.43	.50	.55
1,000 cu.yd. solid rock excavation	1 50	1 40	1 50
20,140 cu.yd. borrow excavation	.48	.50	.55
5,000 cu.yd. loose rock excavation	1 00	1 00	.70
2,000 cu.yd. macadam excavation	1 00	.80	1 25
114 cu.yd. dry earth excavation	1 00	.85	1 00
38 cu.yd. wet earth excavation	3 00	1 10	4 00
38 cu.yd. dry rock excavation	3 00	1 50	4 00
13 cu.yd. wet rock excavation	5 00	2 50	5 00
6,173 sq.yd. overhaul	.05	.035	.05
50 cu.yd. removing masonry	1 00	7 00	2 00
247 ft. removing pipe	1 00	.75	1 00
16 cu.yd. stone retaining walls	10 00	13 00	20 00
1,651 cu.yd. removing stone fence	.60	2 00	1 00
44,579 sq.yd. scarifying and reshaping	.05	.07	.50
825 ft. 12 in. culvert metal pipe	2 00	2 50	1 50
2 rural catch basins	30 00	15 00	50 00
157 ft. concrete valley gutter	2 00	1 85	1 00
2,043 ft. concrete curb and gutter	2 25	2 00	1 60
815 cu.yd. class A concrete	22 00	24 00	23 00
518 cu.yd. class B concrete	22 00	21 50	22 00
6 cu.yd. class D concrete	60 00	65 00	75 00
78,820 lb. reinforcement	.06	.10	.07
553 cu.yd. structure excavation	1 00	.75	1 50
61,401 tons crushed limestone	2 72	3 10	3 30
824 ft. 18 in. vitrified pipe	2 50	2 50	
52 ft. 24 in. vitrified pipe	4 00	3 50	
78 cu.yd. encasing concrete	22 00	25 00	
824 ft. 18 in. concrete pipe	3 00	3 50	3 00
52 ft. 24 in. concrete pipe	5 00	4 50	4 60
Extended totals waterbound macadam and vitrified pipe	$294,451	$327,347	
Extended totals waterbound macadam and concrete pipe	$293,205	$326,280	$337,579

Wash., Puget Sound—Barrack—Spec. 4928—Feb. 27, by Bureau Yards & Docks, Navy Dept., Wash., D. C., barrack for unmaried operator, here. Noted Nov. 29.

Calif., Mare Island—Lumber—Feb. 12, by Bureau Supplies & Accounts, Navy Dept., Wash., D. C., furnishing 396,000 ft. Douglas fir for Navy Yard, here.

BIDS RECEIVED

Miss., Vicksburg—Steel Boat Hulls—U. S. Engineer, Vicksburg, 2 steel maneuver boat hulls, from C. Hegewald Co., New Albany, Ind., $11,990. Noted Dec. 6.

Wis., Milwaukee—Steel Crane—U. S. Engineer, Federal Bldg., one revolving steel crane, from McMyler-Interstate Co., Stop 27, A, B and C Electric Ry., Cleveland, O., $19,200.

CONTRACTS AWARDED

D. C., Wash. — Filtration Plant — U. S. Engineer, 250 Old Land Office Bldg., Wash., D. C., filtration plant and pumping station substructures for Dist. of Columbia Water Supply system, to C. H. Tompkins, 1612 Park Rd., N. W., $861,960. Noted Jan. 24.

Va., Norfolk — Remodeling Quarters — Spec. 4912—Bureau Yards & Docks, Navy Dept., Wash., D. C., remodeling officers' quarters at Marine Corps Base, here, to Agostini Bros., 243 Arcade Bldg., $3,240. Noted Jan. 17.

Ky., Louisville—Steel—U. S. Engineer, P. O. Box 72, furnishing 1,800 round bars soft steel and 200 flat bars soft steel Lot A, and 110 sheets blue annealed steel 36 x 96 in., Lot B, to Bourne-Fuller Co., 1105 Union Trust Bldg., Cincinnati, O., $2.83 and $3.43 per 100 lb. respectively. Noted Jan. 17.

Ark., Marianna — Post Office — Treas. Dept., Wash., D. C., constructing U. S. Post Office, here, to A. Blair, 11 South Lawrence St., Montgomery, Ala., $42,479. Noted Dec. 13.

Wash., North Head—Buildings, Sewer, Water System, etc.—Spec. 4895—Bureau Yards & Docks, Navy Dept., Wash., D. C., buildings, sewers, water and heating systems at Naval Radio Sta., here, to B. Ward, 521 Peoples Bank Bldg., Seattle, $42,628.

FEDERAL POWER COMMISSION

Applications for Licenses and Permits

Applications

456—Grays Harbor Ry. & Light Co., Aberdeen, Wash.—Wants preliminary permit for dam in Wynooche River in vicinity of Aberdeen, Grays Harbor Co.

457—Idaho Power Co., 7th and Bennock Sts., Boise, Idaho — Wants license for power development in Snake River, Gooding and Twin Falls Counties.

458—Amer. Alum Corp., 55 Liberty St., New York City—Want preliminary permit for small power plant in Gila River, Grant Co., New Mexico (in vicinity of Silver City).

459—W. Cravens, 15 West 10th St., Kansas City, Mo.—Wants preliminary permit for 100 ft. dam about 8 mi. up Osage River from Bagnell.

460—City of Tacoma, Wash.—Wants license for power development in North Fork of Skokomish River, Mason Co.

461—Southern California Edison Co., 306 West 3rd St., Los Angeles, Calif.—Wants license for transmission line in Santa Barbara and Ventura Counties.

Unclassified

PROPOSED WORK

Elimination of Grade Crossings—Niagara Falls, N. Y. — New York Central R.R., Grand Central Terminal, and Erie R.R., 50 Church St., both New York City, plan elimination of grade crossings, here. Work includes subways and retaining walls. $1,200,000. G. W. Kittredge, ch. engr. New York Central R.R.

Power Units, etc.—Spier Falls, N. Y.—Adirondack Power & Light Co., 511 State St., Schenectady, having plans prepared additional power units of 10,000 hp. each, $70,000 each, also additional transmission lines, transformer stations, etc., here. Total cost $1,000,000. Private plans.

Fair Grounds—Nashville, Tenn.—Davidson Co. appropriated $30,000 for construction and repairs to buildings, incl. pavilions, stalls, stables, grand stand, etc., at State Fair Grounds, here. L. Hickman, co. judge.

Docks — Cleveland, O. — Erie R.R., 50 Church St., New York City, plans improving ore docks, here, incl. new ore unloader and apparatus. $500,000. H. O. Dunkle, Scranton Ave., Cleveland, genl. agt.

Transmission Lines, etc. — Indiana — Calumet Electric Co., 533 Bway., Gary, plans to extend power and light lines into Lake, Porter and La Porte Counties. Work includes substations, etc. $45,000.

Elimination of Grade Crossing — Ft. Wayne, Ind.—Pennsylvania R.R., Pennsylvania Bldg., 323 South Wells St., Chicago, and Wabash Ry. Co., Exch. Bldg., St. Louis, Mo., plan elimination of grade crossing on Clinton St., here. $50,000. T. J. Skillman, and R. H. Howard, ch. engrs. of respective railroads.

Hydro-Electric Development — Shelbyville, Ind.—J. A. Shafer, 1008 Odd Fellows Bldg., Indianapolis, engr. and promoter of company which plans hydro-electric development, dam on Flat Rock River, near here. $25,000.

Golf Course—South Bend, Ind.—Miami Country Club plans improvements to property on Lincoln Highway, including improvements to golf course and grounds, also club house. $50,000. N. S. Gingrich, secy.

Parks — Milwaukee, Wis. — Election in April to vote on $750,000 bonds for extensions to parks. Address Park Bd., City Hall.

Unclassified (Continued)

Retards—Missouri—Harmony D. D., c/o Clerk Saline Co. (Marshall) plans series of standard retards in Missouri River near Glasgow, to stop cutting off banks. $200,000.

Pipe Line—Texas—Griswold Oil & Refining Co., Electra, had plans prepared 4 in. oil pipe line from owners refinery to Archer Co. oil fields. $30,000. Private plans.

Pipe Line — Texas — United Producers Pipe Line Co., W. T. Waggoner Bldg., Ft. Worth, having plans prepared 8- to 16-in. oil pipe line from Ft. Worth to Ranger and Burkburnett. $1,500,000. Private plans.

Stadium — Austin, Tex. — University of Texas Athletic Council, c/o M. Fichtenbaum, had preliminary plans and sketches made concrete and steel stadium, Clark Field, first unit 30,000 seating capacity, 60,000 ultimate capacity. $500,000. H. M. Green Co., North Texas Bldg., Dallas, engrs. Noted Sec. 6.

Distribution System—Brownwood, Tex.—Texas Power & Light Co., c/o W. P. Murphy, having plans prepared new distribution system between Atchison, Topeka & Santa Fe R.R. and St. Louis & San Francisco R.R., here. $25,000.

Distribution Lines — Houston, Tex. — Houston Lighting & Power Co., Capitol Ave., had plans prepared underground conduits in various streets $132,400; improvements to distribution lines, $275,000. W. E. Browne, Jr., supt.

Hydro-Electric Development—Port Angeles, Wash.—Northwestern Power & Mfg. Co., represented by J. C. Higgins, attorney, Hoge Bldg., plans hydro-electric power development on Elwha River, near here. Plans include development of 20,000 hp. additional unit to present plant, rein.-con. dam, 15 ft. high, 180 ft. long, and 3.5 mi. canal. $1,600,000.

Tunnels—Oregon—See "Railways."

Civic Center—Fresno, Calif.—City plans to vote on $1,500,000 bonds for purchasing land and laying out civic center. W. Stranahan, city engr.

Electrolier System—Fresno, Calif.—See "Streets and Roads."

Gas Mains—Napa, Calif.—Pacific Gas & Electric Co., 445 Sutter St., San Francisco, appropriated funds to install high pressure gas main, 66,000 ft. long, 6⅛ in. net, between here and Vallejo, and other minor improvements to system. To exceed $90,000.

Pleasure Pier, etc.—Ocean Park, Calif.—West Coast Pier Co. having plans prepared by Eng. Serv. Co., Washington Bldg., Los Angeles, pleasure pier, theatre, dance pavilion, etc. To exceed $500,000.

Sea Wall—Ventura, Calif.—See "Streets and Roads."

BIDS DESIRED

Sea Wall, Dock, etc.—New Haven, Conn.—Feb. 25, at office Director Pub. Wks., Room 16 City Hall, constructing sea wall, dock and extending overflow sewer. E. S. Nettleton, city engr.; adv. E. N.-R. Jan. 31.

Heating and Ventilating Apparatus — Brooklyn, N. Y. — Feb. 4, by W. H. Gompert, archt., Flatbush Ave. extension and Concord St., heating and ventilating apparatus in P. S. 196, easterly side of Bushwick Ave. between Scholes and Meserole Sts., for Bd. Educ., 500 Park Ave., New York.

Heating and Ventilating Apparatus—New York, N. Y.—Feb. 4, by W. H. Gompert, archt., Flatbush Ave. extension and Concord St., Brooklyn, heating and ventilating apparatus in George Washington High School, Audubon Ave. about 400 ft. north from West 190th St., Manhattan Boro, also in P. S. 75, Faile St. north of Whitlock Ave., Bronx Boro, for Bd. Educ., 500 Park Ave.

Grandstand, etc.—Detroit, Mich.—Feb. 7, by G. W. Dickinson, secy. mgr., Michigan State Fair Assn., 815 Farwell Bldg., concrete and steel bleachers and addition to grand stand, 341 ft. long, 96 ft. wide, 32 ft. high, also steel, concrete and tile wall, 403 ft. long, in connection with grandstand, $100,000. L. W. Fry, Ann Arbor, archt.

Grade Separation—Springwells, Mich.—Feb. 12, by B. P. Esper, village clk., grade separation at Schaefer Rd. under main line of Michigan Central R.R., here. Hubbell, Hartgering & Rotg., 2348 Penobscot Bldg., Detroit, consult, engrs.; adv. E. N.-R., Jan. 31.

Lumber, Steel, etc.—Iowa City, Ia.—Feb. 5, by Clerk Johnson Co., 7 cars lumber, 3,900 ft. corrugated culvert metal and 40,000 lb. reinforcing steel.

Levee — Jonesboro, Ark. — Feb. 12, by Cane Island D.D. 26, at office of Cobb & Lee, engrs., 1819 Amer. Trust Bldg., 427,000 cu.yd. excav. in levees and 148,000 cu.yd. excav. in ditches. Noted Jan. 17.

Electrolier System—Bakersfield, Calif.—City Council, receiving bids and opens same about Feb. 4, electrolier system on various streets. To exceed $25,000. W. D. Clarke, city engr.

Parking Court—San Francisco, Calif.—Feb. 14, by G. B. McDougall, state archt., Sacramento, automobile parking court, incl. excav. and concrete retaining wall, here, for State. $25,000.

BIDS RECEIVED

Heating and Ventilating Apparatus — New York, N. Y.—W. H. Gompert, archt., Flatbush Ave. extension and Concord St., Brooklyn, Jan. 25, heating and ventilating apparatus in P. S. 92, West 212th St., 100 ft. westerly from 10th Ave., also in P. S. 78, Fish Ave. between Needham Ave. and Hicks St., here, from Austin Eng. Co., 124 West 42nd St., $100,772 and $101,468 respectively. Noted Jan. 17.

CONTRACTS AWARDED

Conduit—New York—Bd. Water Supply, Municipal Bldg., New York City. Clove conduit a portion of city conduits of Catskill aqueduct extending from Bay St. and Vanderbilt Ave., Clifton, to Silver Lake reservoir, Richmond Boro. Contr. 199, to P. F. Connoly Co., 20-29 East 102nd St., Cleveland, O., $677,530. Noted Jan. 10.

Levee—Clarksdale, Miss.—Yazoo-Mississippi Delta Levee Bd. 10,000 cu.yd. topping and 75,000 cu.yd embankment on Old Ward Lake Levee, to Powell Bros., Jackson, $25,900. Noted Jan. 10.

Roadway Columns—New York, N. Y.—Transit Comn., 49 Lafayette St., removing roadway columns and reconstructing structure of Manhattan-Bronx Rapid Transit R.R. at East 177th St. (Tremont Ave.) and Boston Rd., Bronx Boro, Agreement "CV", to Gotham Constr. Co., 220 Bway., $28,743. Noted Jan. 24.

Stadium—Terre Haute, Ind.—City, memorial stadium to be used as athletic center, Memorial Stadium Park, to North-Raffin Constr. Co., Indiana Theatre Bldg., Terre Haute. Archts. est. $450,000.

Foundation—Madison, Wis.—Bd. Educ., J. Moran, clk., 22 West Dayton St., rein.-con. foundation and excavation for addition to Longfellow School, to O'Dea & Schafer, 1019 Oregon St. Noted Dec. 20 under Buildings.

Pipe Line—Texas—Brownwood Gas Co., Brownwood, 8 in. gas line from Brownwood, to Jane Ellen gas field, to Janes Constr. Co., South Western Life Bldg., Dallas, $50,000. Noted Dec. 6.

Electrolier System—Arcadia, Calif.—Installing electrolier lighting system on various streets, to O. U. Miracle, 1036 Lime Ave., Long Beach, $25,650.

Rock Crushing Plant—Los Angeles, Calif.—Union Rock Co., 1403 East 16th St., rock crushing plant, incl. bins and gravel washing plant, to Wheeler Co., 1060 South Bway., $37,500 plus $75 per ton for steel.

Materials and Equipment

PROPOSED WORK

Ashes, etc.—New York, N. Y.—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., rejected bids Jan. 14, 3,000 cu.yd. boiler ashes, and two 5 ton macadam steam rollers. Noted Jan. 17.

Ore Unloader—Cleveland, O.—See "Unclassified."

Dragline—Manitowoc, Wis.—City having specifications prepared and soon takes bids dragline. F. Alter, City Hall, engr.

Street Oil — Manitowoc, Wis. — A. H. Zander, city clk. soon takes bids 60,000 gal. street oil having 60% asphaltic content.

BIDS DESIRED

Overhead Crane—Somerset, Mass.—See "Industrial Works," under "Contracts Awarded."

Grinding Mill, etc.—Howe Cave, N. Y.—Helderberg Cement Co., in market for 1 grinding mill to reduce 2½ in. limestone to 60 per cent through 20 mesh at 8 tons per hr. with 135 hp. Ball hammer or any other that will do work. W. K. Fullerton, supt.

Stone—Newark, N. J.—Feb. 8, by G. C. Bergen, purch. agt. Essex Co., Court House, various sizes crushed stone for highway maintenance. $25,000. W. A. Stickel, Court House, engr. Noted Jan. 24.

Asphaltic Cement, etc.—Trenton, N. J.—Feb. 8, 300 tons asphaltic cement, 50-60 penetration, shipped in car lots, also Buffalo-Pitts 24,000 lb. steam road roller, J. E. English, City Hall, engr.

Culvert Pipe—South Carolina—Feb. 2, at office State Highway Engineer, Columbia, 11,612 lin.ft. 15- to 36-in. concrete culvert pipe for use in various counties.

Structural Steel, etc.—Spartanburg, S. C.—See "Buildings" under Contracts Awarded.

Coal Tar Pitch Filler, etc.—Cincinnati, O.—Feb. 11, by A. Von Bargen, city purch. agt., 100 tons coal tar pitch filler, 300 tons asphalt cement, 500 tons lake sand, 100 tons dust filler, 500 tons bank or river sand, and miscellaneous fittings for Water Works Dept.

Road Grader—Columbus, Ind.—Feb. 4, by J. L. Bonham, aud. Bartholomew Co., one 4-horse road grader, 7 ft. blade.

Crushed Stone—Oshkosh, Wis.—Feb. 8, by F. C. Steiner, comr. Winnebago Co. 7,000 cu.yd. crushed stone. $10,000. Former bids rejected. Noted Dec. 20.

Culvert Pipe, Posts, etc.—Clinton, Ia.—Feb. 7, by Clinton Co., 5,928 ft. corrugated culvert pipe, 75,000 ft. Douglas fir and eight hundred 6 in. x 8 ft. butt treated white cedar posts. E. B. Lorenzen, Clinton, engr.

Lumber—Tipton, Ia.—Feb. 4, by Cedar Co., 244,800 ft. bridge lumber.

Truck—San Antonio, Tex.—I. Iwig, city engr., taking bids 10 ton caterpillar truck.

Portland Cement, Crane, Piles, etc.—St. Paul, Minn.—Feb. 5, by H. W. Austin, city purch. agt., 1,550 bbl. portland cement for Dept. Pub. Wks.; hand-power or motor-operated traveling crane, 7½ ton capacity, 2 Rex or equal vertical type traveling water screens, 1,520 24-ounce cold rolled copper expansion plates, 270 cast aluminum forms for Water Dept.; furnishing and driving about 637 piles between Mississippi River and Charles Lake. G. M. Shepard, city engr.

BIDS RECEIVED

Bituminous Patching—Trenton, N. J.—Bd. Freeholders Mercer Co., Jan. 22, asphalt cut back patch, from Atlantic Refining Co., 3144 Passayunk St., Phila., $2,286; cold tar patch, from T. Tobish, Amer. Mechanic Bldg., $7,800. Noted Jan. 10.

Vitrified Paving Brick, etc.—Minneapolis, Minn.—F. S. Gram, city purch. agt., 190,000 vitr. paving brick for sewer construction, from A. C. Ochs Co., 204 South 9th St., $20 per M.; 400 tons special sewer castings, from Crown Iron Wks. Co., 1229 Tyler St. N. E., for manhole rings and covers $67.50 per ton, for catchbasin rings and covers $68.50 per ton; sewer pipe and segment blocks for 1924 season, from Red Wing Sewer Pipe Co., Red Wing; 185,000 ft. No. 1 rough Norway pine, from J. Neils Lumber Co., 932 Lumber Exch., $45 per M. for 3 x 12 and $34 per M. for 2 x 8 (bid on only small amount), Virginia & Rainy Lake Co., 1032 Lumber Exch., $48.50 for 3 x 12, $35 per M. for 2 x 8, 12-ft. lengths, and $34 per M. for 2 x 8, 16-ft. lengths (bid on full amount). Noted Jan. 8 and 10.

Dump Cars, etc.—St. Paul, Minn.—H. W. Austin, city purch. agt., 10 steel dump cars, to Genl. Contg. Co., 1222 Plymouth Bldg., Minneapolis, $1,000; one thousand six hundred and eighty 16-ft. steel tracks, to W. H. Ziegler Co., 425 South 5th St., Minneapolis, $12,153. Bids rejected on 4-ton gasoline locomotive. Noted Dec. 6.

CONTRACTS AWARDED

Road Surfacing Material, etc.—New York, N. Y.—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., Jan. 14, 75,000 gal. road surfacing material and 50 tons pitch joint filler, to F. J. Lewis Mfg. Co., Eastern Blvd. and East 177th St., $12,270 and $1,199 respectively; 600,000 gal. asphalt road oil, to Texas Co., 17 Battery Pl., $31,980; 500 cu.yd. fine sand, to Gallagher-Shand, Inc., 420 East 105th St., $875; broken stone and trap rock screening, also 500 cu.yd. paving gravel, to Ames Building Material Co., 3437 Kingsbridge Rd., $27,810 and $1,550 respectively; 2,000 bags Portland cement, to C. J. Mallett, Inc., 2554 St. Raymond Ave., $1,390; 1,200 tons asphaltic cement, to Standard Oil Co. of New York, 26 Bway., $22,356; 300,000 gal. tar road oil, to Barrett Co., 40 Rector St., $32,730; 7,500 cu.yd. binder stone, to Calvin Tompkins Co., 30 Church St., $14,850; 10,000 cu.yd. asphalt sand, to C. W. Crane, 17 Battery Pl., $13,200. Noted Jan. 10.

Tractor—Crookston, Minn.—Polk Co., one 10-ton tractor, to W. H. Zeigler Co., 425 South 5th St., Minneapolis, $6,200, incl. $800 credit for old tractor owned by county. Noted Dec. 13.